



Solar-Geophysical Data comprehensive reports

Data for August 2000 and Miscellaneous
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NATIONAL ENVIRONMENTAL SATELLITE,
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NATIONAL GEOPHYSICAL
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SOLAR-GEOPHYSICAL DATA

Number 678

(Issued in Two Parts)

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H α SOLAR FLARES

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-------------------------|-----------|------|--------------|------------|------|------------|------|------------------|-------------------------|------------------|---------|--|
| | | | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0001 | LEAR | 01 | 0442 | 0444 | 0454 | S21 | E57 | 9110 | 08 | 5.6 | 12 | SF | | 3 | E | | 22 | | | |
| 0002 | | 01 | 13115 | 1313* | 1322 | N17 | E16 | 9105 | 08 | 2.8 | 11 | SF | | | | | 11 | | F | |
| | KANZ | 01 | 1311 | 1313 | 1316 | N17 | E15 | 9105 | 08 | 2.7 | 5 | SF | | 2 | E | | | | | |
| | RAMY | 01 | 1316 | 1323 | 1329 | N17 | E18 | 9105 | 08 | 2.9 | 13 | SF | | 3 | E | | 11 | | F | |
| 0003 | KANZ | 02 | 0806 | 0815 | 0856 | N12 | E64 | | 08 | 7.1 | 50 | 1F | | 2 | E | | | | | |
| 0004 | | 02 | 1409 | 1410 | 1413 | S26 | W08 | 9113 | 08 | 2.0 | 4 | SF | | | | | 37 | | | |
| | KANZ | 02 | 1409 | 1410 | 1413 | S26 | W07 | 9113 | 08 | 2.0 | 4 | SF | | 2 | E | | | | | |
| | RAMY | 02 | 1409 | 1410 | 1413 | S27 | W08 | 9113 | 08 | 2.0 | 4 | SF | | 3 | E | | 37 | | | |
| 0005 | | 02 | 1710 | 17101 | 1713 | S28 | W05 | 9113 | 08 | 2.3 | 3 | SF | | | | | 14 | | | |
| | RAMY | 02 | 1710 | 1710 | 1713 | S29 | W06 | 9113 | 08 | 2.2 | 3 | SF | | 3 | E | | 12 | | | |
| | HOLL | 02 | 1710 | 1711 | 1713 | S27 | W04 | 9113 | 08 | 2.4 | 3 | SF | | 3 | E | | 15 | | | |
| 0006 | KHAR | 03 | 0820 | 0821 | 0830U | N22 | E90 | 9115 | 08 | 10.3 | 10U | SF | | 2 | P | 0825 | 35 | | DL | |
| 0007 | KHAR | 03 | 0842 | | 0850 | N26 | W63 | | 07 | 29.6 | 8 | SF | | 2 | V | | | | DL | |
| 0008 | | 03 | 08482 | 08492 | 0855 | N14 | E74 | 9114 | 08 | 8.9 | 7 | SF | | | | | 25 | | D | |
| | KHAR | 03 | 0848 | 0849 | 0854 | N17 | E74 | 9114 | 08 | 9.0 | 6 | SF | | 2 | V | | | | D | |
| | LEAR | 03 | 0850 | 0851 | 0856 | N12 | E73 | 9114 | 08 | 8.9 | 6 | SF | | 4 | E | | 25 | | | |
| 0009 | KHAR | 03 | 1023 | 1025 | 1030U | N26 | W64 | | 07 | 29.6 | 7U | SF | | 2 | V | | | | D | |
| 0010 | RAMY | 03 | 1352 | 1352 | 1356 | N15 | E87 | 9115 | 08 | 10.2 | 4 | SF | | 3 | E | | 15 | | | |
| 0011 | HOLL | 03 | 1549 | 1551 | 1601 | S14 | E05 | 9107 | 08 | 4.0 | 12 | SF | | 3 | E | | 10 | | | |
| 0012 | HOLL | 03 | 1722 | 1722 | 1728 | S19 | E30 | 9110 | 08 | 6.0 | 6 | SF | | 3 | E | | 11 | | | |
| 0013 | HOLL | 03 | 1847 | 1848 | 1851 | N19 | E92 | 9115 | 08 | 10.8 | 4 | SF | | 3 | E | | 19 | | | |
| 0014 | RAMY | 03 | 1848 | 1848 | 1851 | N15 | E82 | 9115 | 08 | 10.0 | 3 | SF | | 3 | E | | 10 | | | |
| 0015 | | 04 | 00317 | 0036 | 0044 | N18 | E84 | 9115 | 08 | 10.4 | 13 | 1F | | | | | 100 | | | |
| | HOLL | 04 | 0031 | 0036 | 0044 | N19 | E86 | 9115 | 08 | 10.6 | 13 | 1F | | 3 | E | | 105 | | | |
| | LEAR | 04 | 0038 | 0040U | 0045 | N16 | E83 | 9115 | 08 | 10.3 | 7 | SF | | 3 | E | | 95 | | | |
| 0016 | LEAR | 04 | 0206 | 0211 | 0218 | S16 | E01 | 9107 | 08 | 4.2 | 12 | SF | | 3 | E | | 54 | | F | |
| 0017 | LEAR | 04 | 0300 | 0301 | 0307 | S16 | E00 | 9107 | 08 | 4.1 | 7 | SF | | 3 | E | | 16 | | F | |
| 0018 | KHAR | 04 | 0909 | 0910 | 0915D | S12 | W90 | | 07 | 28.7 | 6D | SF | | 2 | P | 0912 | 15 | | D | |
| 0019 | RAMY | 04 | 1338 | 1341 | 1354 | S23 | W36 | 9113 | 08 | 1.8 | 16 | SF | | 3 | E | | 17 | | F | |
| 0020 | | 04 | 1725 | 17252 | 1735 | N17 | E72 | 9115 | 08 | 10.2 | 10 | SF | | | | | 34 | | | |
| | RAMY | 04 | 1725 | 1725 | 1733 | N15 | E72 | 9115 | 08 | 10.2 | 8 | SF | | 3 | E | | 24 | | | |
| | HOLL | 04 | 1725 | 1727 | 1737 | N19 | E73 | 9115 | 08 | 10.3 | 12 | SF | | 3 | E | | 43 | | | |
| 0021 | | 04 | 1743 | 1744 | 1755 | S26 | W37 | 9113 | 08 | 1.9 | 12 | SF | | | | | 28 | | | |
| | RAMY | 04 | 1743 | 1744 | 1754 | S26 | W36 | 9113 | 08 | 1.9 | 11 | SF | | 3 | E | | 33 | | | |
| | HOLL | 04 | 1743 | 1744 | 1756 | S26 | W38 | 9113 | 08 | 1.8 | 13 | SF | | 3 | E | | 23 | | | |
| 0022 | HOLL | 04 | 1810 | 1813 | 1818 | N15 | E57 | 9114 | 08 | 9.1 | 8 | SF | | 3 | E | | 30 | | | |
| 0023 | HOLL | 04 | 1915 | 1916 | 1919 | N15 | E57 | 9114 | 08 | 9.1 | 4 | SF | | 3 | E | | 18 | | | |
| | | 04 | 2000 | | 2007 | No Flare Patrol | | | | | | | | | | | | | | |
| 0024 | HOLL | 04 | 2027 | 2029 | 2035 | N15 | E56 | 9114 | 08 | 9.1 | 8 | SF | | 3 | E | | 22 | | | |
| 0025 | HOLL | 04 | 2139 | 2142 | 2152 | S18 | E10 | 9110 | 08 | 5.7 | 13 | SF | | 3 | E | | 34 | | | |
| 0026 | LEAR | 05 | 0136 | 0138 | 0159 | S19 | E06 | 9110 | 08 | 5.5 | 23 | SF | | 4 | E | | 29 | | | |
| 0027 | LEAR | 05 | 0303 | 0304 | 0311 | S25 | W38 | 9113 | 08 | 2.2 | 8 | SF | | 4 | E | | 19 | | | |

H α SOLAR FLARES

5
Aug 00

AUGUST 2000

| Grp # | Sta | Start Day (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Time (UT) | Measurement Apparent (10-6 Disk) | Corr (Sq Deg) | Remarks |
|-------|------|----------------|----------|----------|-----------------|-----|-------------------------|-----------|------|--------------|------------|------|------------|------|----------------------|--|------------------|---------|
| 0028 | SVTO | 05 1010 | 1010 | 1015 | N19 | E66 | 9115 | 08 | 10.5 | 5 | SF | 3 | E | | 12 | | | |
| | | 05 2218 | | 2219 | No Flare Patrol | | | | | | | | | | | | | |
| 0029 | HOLL | 05 2241 | 2243 | 2247 | N20 | W25 | 9111 | 08 | 4.0 | 6 | SF | 3 | E | | 19 | | | |
| | | 05 2311 | | 2322 | No Flare Patrol | | | | | | | | | | | | | |
| | | 05 2333 | | 2334 | No Flare Patrol | | | | | | | | | | | | | |
| 0030 | URUM | 06 0527E | 0527 | 0535 | S23 | W07 | 9110 | 08 | 5.7 | 80 | SF | | P | | 32 | 0.4 | D | |
| 0031 | URUM | 06 0849 | 0853 | 0853D | S34 | E33 | 9121 | 08 | 9.0 | 40 | SN | | P | | 64 | 1.1 | D | |
| 0032 | | 06 09416 | 09453 | 1000 | N11 | E33 | 9114 | 08 | 8.9 | 19 | SF | | | | 43 | 0.8 | EF | |
| | URUM | 06 0941 | 0945 | 1000 | N10 | E34 | 9114 | 08 | 8.9 | 19 | SN | | C | | 64 | 0.8 | E | |
| | KHAR | 06 0947E | | 1005 | N13 | E32 | 9114 | 08 | 8.8 | 180 | SF | 2 | P | 0947 | 45 | | E | |
| | SVTO | 06 0947 | 0948 | 0956 | N11 | E33 | 9114 | 08 | 8.9 | 9 | SF | 3 | E | | 21 | | F | |
| 0033 | KHAR | 06 1047 | 1048 | 1052 | N14 | E29 | 9114 | 08 | 8.6 | 5 | SF | 2 | P | 1051 | 15 | | DL | |
| 0034 | RAMY | 06 1230 | 1231 | 1236 | N09 | E31 | 9114 | 08 | 8.8 | 6 | SF | 3 | E | | 25 | | | |
| 0035 | RAMY | 06 1352 | 1352 | 1356 | N12 | E26 | 9114 | 08 | 8.5 | 4 | SF | 3 | E | | 13 | | F | |
| 0036 | RAMY | 06 1535 | 1546 | 1610 | N09 | E31 | 9114 | 08 | 9.0 | 35 | SF | 3 | E | | 49 | | | |
| 0037 | RAMY | 06 1745 | 1749 | 1755 | N10 | E30 | 9114 | 08 | 9.0 | 10 | SF | 3 | E | | 34 | | | |
| 0038 | RAMY | 06 1802 | 1809 | 1820 | N10 | E30 | 9114 | 08 | 9.0 | 18 | SF | 3 | E | | 17 | | | |
| 0039 | RAMY | 06 1844 | 1847 | 1905 | S20 | W32 | 9107 | 08 | 4.3 | 21 | SF | 3 | E | | 59 | | | |
| 0040 | RAMY | 06 1846 | 1855 | 2059 | N10 | E30 | 9114 | 08 | 9.0 | 133 | SF | 3 | E | | 15 | | | |
| | | 06 2117 | | 2128 | No Flare Patrol | | | | | | | | | | | | | |
| | | 06 2139 | | 2333 | No Flare Patrol | | | | | | | | | | | | | |
| 0041 | URUM | 07 0329E | 0329 | 0333 | N21 | E57 | 9122 | 08 | 11.5 | 40 | SF | | P | | 16 | 0.3 | D | |
| 0042 | URUM | 07 0400E | 0400 | 0400D | N10 | E19 | 9114 | 08 | 8.6 | 40 | SN | | P | | 64 | 0.7 | D | |
| 0043 | URUM | 07 0735 | 0739 | 0744 | S13 | W54 | 9107B | 08 | 3.2 | 9 | SF | | C | | 16 | 0.3 | D | |
| 0044 | URUM | 07 0844 | 0851 | 0907 | N15 | E24 | 9114 | 08 | 9.2 | 23 | SF | | C | | 16 | 0.2 | D | |
| 0045 | | 07 0902 | 09027 | 0911 | N14 | E16 | 9114 | 08 | 8.6 | 9 | SF | | | | 32 | 0.3 | E | |
| | URUM | 07 0902E | 0902 | 0911 | N13 | E17 | 9114 | 08 | 8.6 | 90 | SF | | P | | 32 | 0.3 | E | |
| | KANZ | 07 0902 | 0909 | 0914D | N14 | E16 | 9114 | 08 | 8.6 | 120 | SF | 2 | E | | | | | |
| 0046 | KANZ | 07 0921E | 0921U | 0926D | N15 | E16 | 9114 | 08 | 8.6 | 50 | SF | 2 | E | | | | | |
| | | 07 1327 | | 1350 | No Flare Patrol | | | | | | | | | | | | | |
| 0047 | RAMY | 07 1516 | 1516 | 1521 | N13 | E19 | 9114 | 08 | 9.1 | 5 | SF | 3 | E | | 10 | | | |
| | | 07 2153 | | 2304 | No Flare Patrol | | | | | | | | | | | | | |
| 0048 | HOLL | 07 2341 | 2345 | 2430 | N23 | E49 | 9122 | 08 | 11.8 | 49 | SF | 3 | E | | 21 | | | |
| 0049 | URUM | 08 0212 | 0216 | 0220 | N21 | E44 | 9122 | 08 | 11.5 | 8 | SF | | C | | 80 | 1.2 | E | |
| 0050 | KHAR | 08 0937 | 0939 | 0944 | N11 | E05 | 9114 | 08 | 8.8 | 7 | SF | 2 | P | 0940 | 25 | | | |
| 0051 | KHAR | 08 1038 | 1040 | 1103 | S10 | E90 | | 08 | 15.2 | 25 | SF | 2 | P | 1045 | 35 | | | |
| | | 08 2236 | | 2327 | No Flare Patrol | | | | | | | | | | | | | |
| 0052 | URUM | 09 0101 | 0111 | 0118 | N12 | W01 | 9114 | 08 | 9.0 | 17 | SF | | C | | 16 | 0.2 | D | |

6
Aug 00

H α S O L A R F L A R E S

AUGUST 2000

| Grp # | Sta | Start Day | Max (UT) | End (UT) | Lat | CMD | NOAA/ | CMP | Dur (Min) | Imp | Obs | Area Measurement | Corr | Remarks | |
|-------|------|-----------|----------|----------|-----------------|-----|-------------|-----|-----------|-----|-----|------------------|------|---------|--------|
| | | | | | | | USAF Region | | | | | | | | Mo Day |
| 0053 | | 09 0531 | 0532 | 0538 | N21 | E30 | 9122 | 08 | 11.5 | 7 | SF | | 18 | F | |
| | SVTO | 09 0531 | 0532 | 0538 | N21 | E31 | 9122 | 08 | 11.6 | 7 | SF | 3 E | 14 | F | |
| | LEAR | 09 0531 | 0532 | 0538 | N21 | E29 | 9122 | 08 | 11.4 | 7 | SF | 3 E | 23 | | |
| 0054 | KHAR | 09 1000E | | 1012 | N25 | E90 | 9125 | 08 | 16.4 | 12D | SF | 2 V | | DH | |
| 0055 | KHAR | 09 1000E | | 1010 | S05 | E90 | 9124 | 08 | 16.1 | 10D | SF | 2 V | | D | |
| 0056 | RAMY | 09 1354 | 1358 | 1402 | N14 | W64 | 9111 | 08 | 4.7 | 8 | SF | 3 E | 17 | | |
| 0057 | | 09 14242 | 1436 | 1440 | N14 | W65 | 9111 | 08 | 4.7 | 16 | SF | | 10 | | |
| | HOLL | 09 1424 | 1436 | 1441 | N14 | W65 | 9111 | 08 | 4.7 | 17 | SF | 3 E | 10 | | |
| | RAMY | 09 1426 | 1436 | 1440 | N14 | W65 | 9111 | 08 | 4.7 | 14 | SF | 3 E | 10 | | |
| 0058 | | 09 15312 | 15462 | 1704 | N11 | W10 | 9114 | 08 | 8.9 | 93 | SF | | 24 | F | |
| | HOLL | 09 1531 | 1546 | 1657 | N11 | W10 | 9114 | 08 | 8.9 | 86 | SF | 3 E | 18 | F | |
| | RAMY | 09 1533 | 1548 | 1710 | N11 | W11 | 9114 | 08 | 8.8 | 97 | SF | 3 E | 30 | | |
| 0059 | | 09 16171 | 16181 | 1623 | N14 | W66 | 9111 | 08 | 4.7 | 6 | SF | | 24 | | |
| | RAMY | 09 1617 | 1619 | 1623 | N15 | W66 | 9111 | 08 | 4.7 | 6 | SF | 3 E | 27 | | |
| | HOLL | 09 1618 | 1618 | 1623 | N14 | W66 | 9111 | 08 | 4.7 | 5 | SF | 3 E | 21 | | |
| 0060 | HOLL | 09 1735 | 1736 | 1748 | N15 | W06 | 9114 | 08 | 9.3 | 13 | SF | 3 E | 13 | | |
| 0061 | | 09 18022 | 18061 | 1829 | N11 | W09 | 9114 | 08 | 9.1 | 27 | SF | | 46 | | |
| | RAMY | 09 1802 | 1807 | 1844 | N11 | W09 | 9114 | 08 | 9.1 | 42 | SF | 3 E | 55 | | |
| | HOLL | 09 1804 | 1806 | 1814 | N11 | W09 | 9114 | 08 | 9.1 | 10 | SF | 3 E | 36 | | |
| 0062 | HOLL | 09 1817 | 1822 | 1838 | N12 | W11 | 9114 | 08 | 8.9 | 21 | SF | 3 E | 23 | | |
| | | 09 2106 | | 2325 | No Flare Patrol | | | | | | | | | | |
| 0063 | LEAR | 10 0331 | 0335 | 0348 | S19 | W71 | 9110 | 08 | 4.7 | 17 | 1F | 3 E | 106 | F | |
| 0064 | KANZ | 10 0614 | 0616 | 0619 | S37 | W11 | 9121 | 08 | 9.4 | 5 | SF | 2 E | | | |
| 0065 | KHAR | 10 0925E | | 0931 | S35 | E44 | 9127 | 08 | 13.9 | 6D | SF | 2 V | | DH | |
| 0066 | KHAR | 10 0957 | 0959 | 1003 | N16 | E90 | 9128 | 08 | 17.2 | 6 | SF | 2 P | 1001 | 30 | DH |
| 0067 | KHAR | 10 1042 | 1043 | 1048 | S04 | E70 | | 08 | 15.7 | 6 | SF | 2 P | 1046 | 40 | DO |
| 0068 | KHAR | 10 1046 | 1050 | 1125 | N16 | E90 | 9128 | 08 | 17.3 | 39 | SF | 2 P | 1046 | 30 | DHO |
| 0069 | KHAR | 10 1158 | 1209 | 1220 | N16 | E86 | 9128 | 08 | 17.0 | 22 | SN | 2 V | | H | |
| 0070 | RAMY | 10 1222 | 1225 | 1232 | N10 | W25 | 9114 | 08 | 8.6 | 10 | SF | 3 E | 34 | FH | |
| 0071 | | 10 14252 | 14271 | 1433 | N20 | E53 | 9123 | 08 | 14.6 | 8 | SF | | 21 | | |
| | KANZ | 10 1425 | 1427 | 1434 | N20 | E53 | 9123 | 08 | 14.6 | 9 | SF | 2 E | | | |
| | RAMY | 10 1427 | 1428 | 1432 | N20 | E53 | 9123 | 08 | 14.6 | 5 | SF | 3 E | 21 | | |
| | | 10 1835 | | 1902 | No Flare Patrol | | | | | | | | | | |
| | | 10 1909 | | 1952 | No Flare Patrol | | | | | | | | | | |
| 0072 | RAMY | 10 2010 | 2011 | 2013 | N10 | W26 | 9114 | 08 | 8.9 | 3 | SF | 3 E | 35 | F | |
| | | 10 2059 | | 2108 | No Flare Patrol | | | | | | | | | | |
| | | 10 2120 | | 2126 | No Flare Patrol | | | | | | | | | | |
| 0073 | | 10 21308 | 21309 | 2138 | N08 | W29 | 9114 | 08 | 8.7 | 8 | SF | | 21 | F | |
| | RAMY | 10 2130 | 2130 | 2133 | N08 | W30 | 9114 | 08 | 8.6 | 3 | SF | 3 E | 22 | F | |
| | RAMY | 10 2138 | 2139 | 2142 | N08 | W28 | 9114 | 08 | 8.8 | 4 | SF | 3 E | 20 | F | |
| | | 10 2144 | | 2155 | No Flare Patrol | | | | | | | | | | |
| | | 10 2214 | | 2320 | No Flare Patrol | | | | | | | | | | |
| 0074 | | 11 0502 | 0507 | 0513 | N05 | W30 | 9126 | 08 | 9.0 | 11 | SF | | 18 | F | |
| | LEAR | 11 0502 | 0507 | 0513 | N05 | W32 | 9126 | 08 | 8.8 | 11 | SF | 4 E | 16 | F | |
| | SVTO | 11 0505E | 0510U | 0514D | N05 | W27 | 9126 | 08 | 9.2 | 9D | SF | 2 E | 21 | F | |

H α SOLAR FLARES

7
Aug 00

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | NOAA/USAF | | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks |
|-------|------|-----|------------|----------|----------|-----------|-----|--------|-----------|---------|------|---------|------|-----------|----------------------|---------------|---------|
| | | | | | | Region | Day | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0075 | | 11 | 0637* | 0653 | 0702 | S12 | E64 | 9124 | 08 | 16.1 | 25 | SF | | | 21 | | F |
| | KANZ | 11 | 0637 | 0653 | 0702 | S12 | E63 | 9124 | 08 | 16.0 | 25 | SF | 2 | E | | | |
| | LEAR | 11 | 0648 | 0653 | 0702 | S12 | E64 | 9124 | 08 | 16.1 | 14 | SF | 4 | E | 21 | | F |
| 0076 | | 11 | 07144 | 07162 | 0729 | N27 | E65 | 9125 | 08 | 16.4 | 15 | SF | | | 36 | | F |
| | LEAR | 11 | 0714 | 0716 | 0731 | N26 | E66 | 9125 | 08 | 16.4 | 17 | SF | 4 | E | 47 | | F |
| | SVTO | 11 | 0714 | 0718 | 0725 | N27 | E65 | 9125 | 08 | 16.4 | 11 | SF | 3 | E | 26 | | F |
| | KANZ | 11 | 0718 | 0718 | 0730 | N27 | E63 | 9125 | 08 | 16.2 | 12 | SF | 2 | E | | | |
| 0077 | KANZ | 11 | 0926 | 0929 | 0940 | S12 | E63 | 9124 | 08 | 16.1 | 14 | SF | 2 | E | | | |
| 0078 | KHAR | 11 | 1018E | | 1120D | N03 | W33 | 9126 | 08 | 9.0 | 62D | SF | 2 | P | 1020 | 55 | LO |
| 0079 | | 11 | 10504 | 1055 | 1101 | S06 | E55 | 9133 | 08 | 15.6 | 11 | SF | | | | | D |
| | KANZ | 11 | 1050 | 1055 | 1102 | S08 | E54 | 9133 | 08 | 15.5 | 12 | SF | 2 | E | | | |
| | KHAR | 11 | 1054 | 1055 | 1100 | S05 | E56 | 9133 | 08 | 15.6 | 6 | SF | 2 | V | | | D |
| 0080 | | 11 | 1101 | 1104 | 1116 | N05 | W34 | 9126 | 08 | 8.9 | 15 | SF | | | 80 | 1.0 | E |
| | KANZ | 11 | 1101 | 1104 | 1116 | N05 | W34 | 9126 | 08 | 8.9 | 15 | SF | 2 | E | | | |
| | URUM | 11 | 1104E | 1104 | 1104D | N05 | W34 | 9126 | 08 | 8.9 | 15D | SF | | P | 80 | 1.0 | E |
| 0081 | URUM | 11 | 1134 | 1135 | 1135D | N13 | W35 | 9114 | 08 | 8.8 | 1D | SF | | P | 32 | 0.4 | D |
| 0082 | URUM | 11 | 1208E | 1208 | 1212 | N05 | W34 | 9126 | 08 | 9.0 | 4D | SF | | P | 129 | 1.6 | E |
| 0083 | | 11 | 1238 | 1243 | 1252 | S08 | E53 | 9133 | 08 | 15.5 | 14 | SF | | | 22 | | |
| | KANZ | 11 | 1238 | 1243 | 1252 | S08 | E52 | 9133 | 08 | 15.4 | 14 | SF | 2 | E | | | |
| | RAMY | 11 | 1238 | 1243 | 1253 | S09 | E54 | 9133 | 08 | 15.6 | 15 | SF | 3 | E | 22 | | |
| 0084 | | 11 | 13356 | 13357 | 1400 | N05 | W36 | 9126 | 08 | 8.9 | 25 | SF | | | 40 | | F |
| | HOLL | 11 | 1335 | 1335 | 1425 | N05 | W34 | 9126 | 08 | 9.0 | 50 | SF | 3 | E | 32 | | |
| | RAMY | 11 | 1340 | 1341 | 1352 | N04 | W37 | 9126 | 08 | 8.8 | 12 | SF | 3 | E | 71 | | |
| | SVTO | 11 | 1341 | 1341 | 1344 | N05 | W37 | 9126 | 08 | 8.8 | 3 | SF | 3 | E | 18 | | F |
| | KANZ | 11 | 1341 | 1342 | 1349D | N06 | W36 | 9126 | 08 | 8.9 | 8D | SF | 2 | E | | | |
| 0085 | RAMY | 11 | 1419 | 1420 | 1425 | N08 | W38 | 9126 | 08 | 8.7 | 6 | SF | 3 | E | 54 | | |
| 0086 | | 11 | 14205 | 14216 | 1433 | N04 | W36 | 9126 | 08 | 8.9 | 13 | SF | | | 50 | | |
| | RAMY | 11 | 1420 | 1421 | 1426 | N04 | W36 | 9126 | 08 | 8.9 | 6 | SF | 3 | E | 28 | | |
| | HOLL | 11 | 1425 | 1427 | 1440 | N05 | W36 | 9126 | 08 | 8.9 | 15 | SF | 3 | E | 73 | | |
| 0087 | | 11 | 14531 | 14591 | 1506 | S09 | E54 | 9124 | 08 | 15.7 | 13 | SF | | | 12 | | |
| | RAMY | 11 | 1453 | 1500 | 1506 | S10 | E56 | 9124 | 08 | 15.8 | 13 | SF | 3 | E | 10 | | |
| | HOLL | 11 | 1454 | 1459 | 1505 | S08 | E53 | 9124 | 08 | 15.6 | 11 | SF | 3 | E | 13 | | |
| 0088 | RAMY | 11 | 1534 | 1604 | 1618 | N12 | W36 | 9114 | 08 | 8.9 | 44 | SF | 3 | E | 48 | | |
| 0089 | | 11 | 1537* | 1548 | 1604 | N12 | W38 | 9114 | 08 | 8.8 | 27 | SF | | | 34 | | F |
| | HOLL | 11 | 1537 | 1548 | 1615 | N13 | W38 | 9114 | 08 | 8.8 | 38 | SF | 3 | E | 58 | | |
| | SVTO | 11 | 1547 | 1548 | 1554 | N12 | W38 | 9114 | 08 | 8.8 | 7 | SF | 3 | E | 11 | | F |
| 0090 | RAMY | 11 | 1610 | 1610 | 1614 | N05 | W37 | 9127 | 08 | 8.9 | 4 | SF | 3 | E | 15 | | |
| 0091 | | 11 | 17121 | 17131 | 1722 | N05 | W38 | 9127 | 08 | 8.9 | 10 | SF | | | 13 | | |
| | RAMY | 11 | 1712 | 1714 | 1722 | N05 | W38 | 9127 | 08 | 8.9 | 10 | SF | 3 | E | 12 | | |
| | HOLL | 11 | 1713 | 1713 | 1723 | N05 | W38 | 9127 | 08 | 8.9 | 10 | SF | 3 | E | 14 | | |
| 0092 | | 11 | 17161 | 17182 | 1724 | N12 | E76 | 9128 | 08 | 17.4 | 8 | SF | | | 13 | | |
| | HOLL | 11 | 1716 | 1718 | 1725 | N14 | E77 | 9128 | 08 | 17.5 | 9 | SF | 3 | E | 15 | | |
| | RAMY | 11 | 1717 | 1720 | 1724 | N11 | E74 | 9128 | 08 | 17.3 | 7 | SF | 3 | E | 11 | | |
| 0093 | | 11 | 17161 | 17161 | 1720 | N26 | E56 | 9125 | 08 | 16.1 | 4 | SF | | | 11 | | |
| | HOLL | 11 | 1716 | 1716 | 1720 | N26 | E56 | 9125 | 08 | 16.1 | 4 | SF | 3 | E | 12 | | |
| | RAMY | 11 | 1717 | 1717 | 1720 | N27 | E57 | 9125 | 08 | 16.2 | 3 | SF | 3 | E | 10 | | |
| 0094 | | 11 | 17261 | 1728 | 1736 | N05 | W40 | 9127 | 08 | 8.7 | 10 | SF | | | 20 | | |
| | HOLL | 11 | 1726 | 1728 | 1736 | N05 | W40 | 9127 | 08 | 8.7 | 10 | SF | 3 | E | 21 | | |
| | RAMY | 11 | 1727 | 1728 | 1737 | N05 | W39 | 9127 | 08 | 8.8 | 10 | SF | 3 | E | 20 | | |

8
Aug 00

H α SOLAR FLARES

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Dur Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks | |
|-------|------|-----|------------|----------|----------|-----|-----|-------------------------|-----------|------------|--------------|------------|------|------------|------|--------------|-------------------------|------------------|-----------------|------|
| | | | | | | | | | | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0095 | | 11 | 1759 | 1759 | 1803 | N25 | E57 | 9125 | 08 | 16.2 | 4 | SF | | | | | | 14 | | |
| | HOLL | 11 | 1759 | 1759 | 1803 | N23 | E57 | 9125 | 08 | 16.1 | 4 | SF | | 3 | E | | | 15 | | |
| | RAMY | 11 | 1759 | 1800 | 1803 | N27 | E57 | 9125 | 08 | 16.2 | 4 | SF | | 3 | E | | | 13 | | |
| | | 11 | 2012 | | 2342 | | | | | | | | | | | | | | No Flare Patrol | |
| | | 11 | 2350 | | 2400 | | | | | | | | | | | | | | No Flare Patrol | |
| 0096 | LEAR | 12 | 0005 | 0006 | 0025 | S14 | E55 | 9124 | 08 | 16.2 | 20 | SF | | 3 | E | | | 27 | | F |
| 0097 | LEAR | 12 | 0140 | 0141 | 0221 | N14 | W43 | 9114 | 08 | 8.8 | 41 | SF | | 4 | E | | | 24 | | F |
| 0098 | LEAR | 12 | 0202 | 0204 | 0236 | N21 | E53 | 9125 | 08 | 16.1 | 34 | SF | | 4 | E | | | 67 | | FH |
| 0099 | URUM | 12 | 0344 | 0352 | 0352D | N21 | E51 | 9125 | 08 | 16.1 | 8D | SN | | | P | | | 64 | 1.1 | E |
| 0100 | LEAR | 12 | 0425 | 0429 | 0433 | S10 | E39 | 9133 | 08 | 15.1 | 8 | SF | | 4 | E | | | 11 | | |
| 0101 | LEAR | 12 | 0523 | 0525 | 0529 | N20 | E52 | 9125 | 08 | 16.2 | 6 | SF | | 4 | E | | | 16 | | |
| 0102 | | 12 | 06182 | 06213 | 0636 | S13 | E52 | 9124 | 08 | 16.2 | 18 | SF | | | | | | 28 | | F |
| | LEAR | 12 | 0618 | 0621 | 0635 | S13 | E52 | 9124 | 08 | 16.2 | 17 | SF | | 4 | E | | | 29 | | F |
| | SVTO | 12 | 0620 | 0624 | 0638 | S13 | E53 | 9124 | 08 | 16.3 | 18 | SF | | 3 | E | | | 26 | | |
| | KANZ | 12 | 0622E | 0622U | 0634 | S13 | E52 | 9124 | 08 | 16.2 | 12D | SF | | 2 | E | | | | | |
| 0103 | | 12 | 06402 | 06421 | 0649 | N06 | W49 | 9126 | 08 | 8.6 | 9 | SF | | | | | | 26 | | H |
| | KANZ | 12 | 0640 | 0643 | 0649 | N06 | W48 | 9126 | 08 | 8.7 | 9 | SF | | 2 | E | | | | | |
| | LEAR | 12 | 0641 | 0642 | 0649 | N07 | W48 | 9126 | 08 | 8.7 | 8 | SF | | 4 | E | | | 36 | | |
| | SVTO | 12 | 0642 | 0643 | 0648 | N06 | W50 | 9126 | 08 | 8.5 | 6 | SF | | 3 | E | | | 17 | | H |
| 0104 | | 12 | 07377 | 07465 | 0811 | S13 | W30 | 9116 | 08 | 10.0 | 34 | SN | | | | | | 75 | 2.0 | EFHU |
| | KANZ | 12 | 0737 | 0746 | 0808 | S13 | W30 | 9116 | 08 | 10.0 | 31 | SF | | 2 | E | | | | | |
| | LEAR | 12 | 0739 | 0746 | 0810 | S13 | W31 | 9116 | 08 | 10.0 | 31 | SF | | 3 | E | | | 40 | | UF |
| | SVTO | 12 | 0741 | 0748 | 0806 | S14 | W30 | 9116 | 08 | 10.0 | 25 | SF | | 3 | E | | | 24 | | UH |
| | URUM | 12 | 0744 | 0751 | 0819 | S13 | W30 | 9116 | 08 | 10.0 | 35 | SB | | | C | | | 161 | 2.0 | E |
| 0105 | | 12 | 07454 | 07512 | 0759 | N22 | E50 | 9125 | 08 | 16.2 | 14 | SF | | | | | | 96 | 3.9 | E |
| | URUM | 12 | 0745 | 0751 | 0755 | N23 | E53 | 9125 | 08 | 16.4 | 10 | 1N | | | C | | | 225 | 3.9 | E |
| | LEAR | 12 | 0748 | 0753 | 0802 | N21 | E50 | 9125 | 08 | 16.1 | 14 | SF | | 3 | E | | | 43 | | |
| | SVTO | 12 | 0749 | 0752 | 0759 | N22 | E49 | 9125 | 08 | 16.1 | 10 | SF | | 3 | E | | | 21 | | |
| | KANZ | 12 | 0749 | 0752 | 0800 | N22 | E48 | 9125 | 08 | 16.0 | 11 | SF | | 2 | E | | | | | |
| 0106 | URUM | 12 | 0908 | 0912 | 0920 | N13 | W46 | 9114 | 08 | 8.9 | 12 | SF | | | C | | | 80 | 1.2 | E |
| 0107 | | 12 | 09511 | 0954* | 1015 | S16 | W79 | 9119 | 08 | 6.4 | 24 | SN | | | | | | 48 | | AL |
| | KHAR | 12 | 0951 | 0954 | 1000D | S17 | W79 | 9119 | 08 | 6.4 | 9D | SF | | 2 | V | | | | | L |
| | URUM | 12 | 0952 | 1004 | 1015 | S14 | W79 | 9119 | 08 | 6.4 | 23 | SN | | | C | | | 48 | | A |
| 0108 | | 12 | 1104 | 1106 | 1112 | N23 | E47 | 9125 | 08 | 16.1 | 8 | SN | | | | | | | | D |
| | KANZ | 12 | 1104 | 1106 | 1109 | N21 | E47 | 9125 | 08 | 16.1 | 5 | SF | | 2 | E | | | | | D |
| | KHAR | 12 | 1104 | 1107 | 1116 | N25 | E47 | 9125 | 08 | 16.1 | 12 | SN | | 2 | V | | | | | D |
| 0109 | KHAR | 12 | 1119 | 1121 | 1125 | N07 | W54 | 9126A | 08 | 8.4 | 6 | SF | | 2 | V | | | | | D |
| 0110 | KHAR | 12 | 1150 | 1152 | 1159 | N25 | E48 | 9125 | 08 | 16.2 | 9 | SF | | 2 | V | | | | | D |
| 0111 | KANZ | 12 | 1236 | 1236 | 1237 | N04 | W49 | 9126 | 08 | 8.9 | 1 | SF | | 2 | E | | | | | |
| 0112 | | 12 | 12309 | 12423 | 1309 | N13 | W50 | 9114 | 08 | 8.7 | 39 | SF | | | | | | 59 | | FH |
| | RAMY | 12 | 1230 | 1242 | 1323 | N12 | W50 | 9114 | 08 | 8.7 | 53 | SF | | 3 | E | | | 77 | | |
| | SVTO | 12 | 1239 | 1244 | 1302 | N13 | W50 | 9114 | 08 | 8.7 | 23 | SF | | 3 | E | | | 41 | | FH |
| | KANZ | 12 | 1239 | 1245 | 1303 | N14 | W49 | 9114 | 08 | 8.8 | 24 | SF | | 2 | E | | | | | |
| 0113 | HOLL | 12 | 1355 | 1454 | 1734 | N13 | W46 | 9114 | 08 | 9.1 | 219 | SF | | 3 | E | | | 78 | | FT |
| 0114 | HOLL | 12 | 1407 | 1410 | 1414 | N23 | E44 | 9125 | 08 | 16.0 | 7 | SF | | 3 | E | | | 14 | | |

H α SOLAR FLARES

9
Aug 00

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-------------------------|-----------|------|--------------|------------|------|------------|------|--------------|-------------------------|------------------|---------|---|--|
| | | | | | | | | | | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | | | |
| 0115 | | 12 | 14273 | 14301 | 1440 | N22 | E45 | 9125 | 08 | 16.1 | 13 | SF | | | | | | 38 | | | |
| | HOLL | 12 | 1427 | 1431 | 1445 | N23 | E44 | 9125 | 08 | 16.0 | 18 | SF | | 3 | E | | | 53 | | | |
| | KANZ | 12 | 1428 | 1430 | 1433D | N21 | E46 | 9125 | 08 | 16.1 | 5D | SF | | 2 | E | | | | | | |
| | RAMY | 12 | 1428 | 1430 | 1440 | N21 | E45 | 9125 | 08 | 16.0 | 12 | SF | | 3 | E | | | 46 | | | |
| | SVTO | 12 | 1430 | 1431 | 1434 | N21 | E46 | 9125 | 08 | 16.1 | 4 | SF | | 3 | E | | | 14 | | | |
| 0116 | | 12 | 1455 | 14561 | 1506 | N22 | E44 | 9125 | 08 | 16.0 | 11 | SF | | | | | | 20 | | | |
| | RAMY | 12 | 1455 | 1456 | 1505 | N22 | E44 | 9125 | 08 | 16.0 | 10 | SF | | 3 | E | | | 19 | | | |
| | HOLL | 12 | 1455 | 1457 | 1507 | N23 | E44 | 9125 | 08 | 16.0 | 12 | SF | | 3 | E | | | 22 | | | |
| 0117 | RAMY | 12 | 1552 | 1552 | 1555 | N22 | E44 | 9125 | 08 | 16.0 | 3 | SF | | 3 | E | | | 10 | | | |
| 0118 | | 12 | 16291 | 1630 | 1634 | N22 | E44 | 9125 | 08 | 16.1 | 5 | SF | | | | | | 27 | | | |
| | RAMY | 12 | 1629 | 1630 | 1634 | N21 | E44 | 9125 | 08 | 16.1 | 5 | SF | | 3 | E | | | 29 | | | |
| | HOLL | 12 | 1630 | 1630 | 1634 | N23 | E45 | 9125 | 08 | 16.1 | 4 | SF | | 3 | E | | | 25 | | | |
| 0119 | RAMY | 12 | 1717 | 1719 | 1733 | S09 | E38 | 9124 | 08 | 15.6 | 16 | SF | | 3 | E | | | 54 | | F | |
| 0120 | | 12 | 1718 | 17181 | 1732 | S12 | E46 | 9124 | 08 | 16.2 | 14 | SF | | | | | | 40 | | | |
| | HOLL | 12 | 1718 | 1718 | 1731 | S11 | E46 | 9124 | 08 | 16.2 | 13 | SF | | 3 | E | | | 44 | | | |
| | RAMY | 12 | 1718 | 1719 | 1734 | S12 | E46 | 9124 | 08 | 16.2 | 16 | SF | | 3 | E | | | 36 | | | |
| 0121 | RAMY | 12 | 1742 | 1742 | 1750 | S14 | W38 | 9116 | 08 | 9.9 | 8 | SF | | 3 | E | | | 17 | | F | |
| 0122 | RAMY | 12 | 1815 | 1815 | 1836 | N21 | E42 | 9125 | 08 | 16.0 | 21 | SF | | 3 | E | | | 19 | | | |
| 0123 | HOLL | 12 | 1844 | 1845 | 1856 | N23 | E44 | 9125 | 08 | 16.2 | 12 | SF | | 3 | E | | | 33 | | | |
| 0124 | HOLL | 12 | 2012 | 2014 | 2024 | S12 | E45 | 9124 | 08 | 16.2 | 12 | SF | | 3 | E | | | 33 | | | |
| | | 12 | 2044 | | 2101 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 12 | 2111 | | 2115 | No Flare Patrol | | | | | | | | | | | | | | | |
| | | 12 | 2158 | | 2226 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0125 | HOLL | 12 | 2228 | 2229 | 2239 | S07 | E34 | 9124 | 08 | 15.5 | 11 | SF | | 3 | E | | | 24 | | | |
| 0126 | URUM | 13 | 0236E | 0241 | 0244D | N06 | W59 | 9126 | 08 | 8.7 | 8D | SF | | | P | | | 80 | 1.6 | E | |
| 0127 | LEAR | 13 | 0513 | 0513 | 0522 | S14 | E39 | 9124 | 08 | 16.2 | 9 | SF | | 3 | E | | | 26 | | | |
| 0128 | LEAR | 13 | 0642 | 0643 | 0647 | N22 | E39 | 9125 | 08 | 16.3 | 5 | SF | | 3 | E | | | 38 | | | |
| 0129 | | 13 | 0843 | 0845 | 0856 | N23 | E38 | 9125 | 08 | 16.3 | 13 | SF | | | | | | 46 | | | |
| | LEAR | 13 | 0843 | 0845 | 0856 | N23 | E39 | 9125 | 08 | 16.4 | 13 | SF | | 3 | E | | | 51 | | | |
| | SVTO | 13 | 0843 | 0845 | 0857 | N23 | E37 | 9125 | 08 | 16.2 | 14 | SF | | 3 | E | | | 40 | | | |
| 0130 | | 13 | 09082 | 0910 | 0923 | N06 | W66 | 9126 | 08 | 8.4 | 15 | 1F | | | | | | 68 | | F | |
| | LEAR | 13 | 0908 | 0910 | 0928 | N07 | W65 | 9126 | 08 | 8.5 | 20 | 1F | | 3 | E | | | 105 | | F | |
| | SVTO | 13 | 0910 | 0910 | 0918 | N06 | W66 | 9126 | 08 | 8.4 | 8 | SF | | 3 | E | | | 30 | | F | |
| 0131 | KHAR | 13 | 0923E | | 0948 | N03 | W63 | 9126 | 08 | 8.7 | 25D | 1F | | 2 | P | 0930 | | 130 | | E | |
| 0132 | | 13 | 1041 | 1041 | 1103 | N25 | E35 | 9125 | 08 | 16.1 | 22 | SF | | | | | | 100 | | E | |
| | KHAR | 13 | 1041 | | 1114 | N27 | E33 | 9125 | 08 | 16.0 | 33 | 1F | | 2 | P | 1101 | | 185 | | E | |
| | SVTO | 13 | 1041 | 1041 | 1058 | N25 | E37 | 9125 | 08 | 16.3 | 17 | SF | | 3 | E | | | 14 | | | |
| | KANZ | 13 | 1053E | | 1058 | N23 | E34 | 9125 | 08 | 16.1 | 5D | SF | | 2 | E | | | | | | |
| 0133 | KHAR | 13 | 1044 | | 1055 | N10 | W61 | 9114 | 08 | 8.9 | 11 | SF | | 2 | V | | | | | | |
| 0134 | | 13 | 1104 | 1106 | 1109 | S12 | E34 | 9124 | 08 | 16.0 | 5 | SF | | | | | | 22 | | F | |
| | SVTO | 13 | 1104 | 1106 | 1110 | S12 | E33 | 9124 | 08 | 15.9 | 6 | SF | | 3 | E | | | 22 | | F | |
| | KANZ | 13 | 1104 | 1108U | 1108 | S12 | E34 | 9124 | 08 | 16.0 | 4 | SF | | 2 | E | | | | | | |
| 0135 | KHAR | 13 | 1121 | 1137 | 1153 | N19 | W61 | | 08 | 8.8 | 32 | SF | | 2 | V | | | | | | |
| 0136 | KHAR | 13 | 1131 | 1134 | 1138 | S11 | E36 | 9124 | 08 | 16.2 | 7 | SF | | 2 | V | | | | | D | |
| 0137 | SVTO | 13 | 1140 | 1140 | 1145 | N23 | E36 | 9125 | 08 | 16.3 | 5 | SF | | 3 | E | | | 15 | | | |

10
Aug 00

H α SOLAR FLARES

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks |
|-------|------|-----|------------|----------|----------|-----|-----|-------------------------|-----------|--------------|------------|------|------------|------|--------------|-------------------------|------------------|---------|
| | | | | | | | | | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0138 | KHAR | 13 | 1155 | | 1200 | N26 | E35 | 9125 | 08 | 16.2 | 5 | SF | 2 | V | | | | D |
| 0139 | HOLL | 13 | 1326 | 1328 | 1331 | N05 | W67 | 9126 | 08 | 8.5 | 5 | SF | 3 | E | | 20 | | |
| 0140 | | 13 | 13402 | 13432 | 1402 | N22 | E32 | 9125 | 08 | 16.0 | 22 | SF | | | | 41 | | F |
| | KANZ | 13 | 1340 | 1344 | 1404 | N22 | E31 | 9125 | 08 | 15.9 | 24 | SF | 2 | E | | | | |
| | HOLL | 13 | 1341 | 1343 | 1404 | N22 | E33 | 9125 | 08 | 16.1 | 23 | SF | 3 | E | | 47 | | |
| | SVTO | 13 | 1342 | 1345 | 1357 | N22 | E32 | 9125 | 08 | 16.0 | 15 | SF | 3 | E | | 35 | | F |
| 0141 | HOLL | 13 | 1504 | 1505 | 1512 | S02 | E63 | 9129 | 08 | 18.3 | 8 | SF | 3 | E | | 15 | | |
| 0142 | RAMY | 13 | 1658 | 1704 | 1719 | N24 | E33 | 9125 | 08 | 16.2 | 21 | SF | 3 | E | | 31 | | |
| 0143 | RAMY | 13 | 1721 | 1722 | 1737 | N24 | E31 | 9125 | 08 | 16.1 | 16 | SF | 3 | E | | 19 | | |
| 0144 | RAMY | 13 | 1739 | 1740 | 1748 | N24 | E31 | 9125 | 08 | 16.1 | 9 | SF | 3 | E | | 15 | | |
| 0145 | | 13 | 18191 | 1825 | 1838 | N22 | E30 | 9125 | 08 | 16.1 | 19 | SF | | | | 33 | | |
| | RAMY | 13 | 1819 | 1825 | 1838 | N21 | E30 | 9125 | 08 | 16.1 | 19 | SF | 3 | E | | 33 | | |
| | HOLL | 13 | 1820 | 1825 | 1839 | N22 | E30 | 9125 | 08 | 16.1 | 19 | SF | 3 | E | | 33 | | |
| 0146 | HOLL | 13 | 2009 | 2010 | 2018 | N24 | E32 | 9125 | 08 | 16.3 | 9 | SF | 3 | E | | 33 | | |
| 0147 | HOLL | 13 | 2012 | 2018 | 2030 | N13 | W68 | 9114 | 08 | 8.7 | 18 | SF | 3 | E | | 72 | | |
| 0148 | HOLL | 13 | 2132 | 2138 | 2148 | N23 | E30 | 9125 | 08 | 16.2 | 16 | SF | 3 | E | | 94 | | |
| 0149 | LEAR | 13 | 2354 | 2405 | 2410 | N21 | E25 | 9125 | 08 | 15.9 | 16 | SF | 3 | E | | 29 | | F |
| 0150 | LEAR | 14 | 0012 | 0014 | 0029 | N21 | E25 | 9125 | 08 | 15.9 | 17 | SF | 3 | E | | 19 | | F |
| 0151 | LEAR | 14 | 0018 | 0018 | 0021 | N07 | W73 | 9126 | 08 | 8.5 | 3 | SF | 3 | E | | 15 | | |
| 0152 | LEAR | 14 | 0226 | 0227 | 0238 | N07 | W74 | 9126 | 08 | 8.5 | 12 | SF | 4 | E | | 28 | | |
| 0153 | | 14 | 04582 | 05031 | 0524 | N06 | W74 | 9126 | 08 | 8.7 | 26 | 1F | | | | 74 | | F |
| | LEAR | 14 | 0458 | 0503 | 0530 | N06 | W75 | 9126 | 08 | 8.6 | 32 | 1F | 4 | E | | 121 | | F |
| | SVTO | 14 | 0500 | 0504 | 0518 | N05 | W72 | 9126 | 08 | 8.8 | 18 | SF | 3 | E | | 27 | | F |
| 0154 | KANZ | 14 | 0737 | 0741 | 0747 | S06 | E59 | 9129 | 08 | 18.7 | 10 | 1F | 2 | E | | | | |
| 0155 | LEAR | 14 | 0738 | 0743 | 0750 | S06 | E47 | 9129 | 08 | 17.8 | 12 | 1F | 4 | E | | 109 | | |
| 0156 | | 14 | 1254 | 12541 | 1301 | S06 | E56 | 9129 | 08 | 18.7 | 7 | SF | | | | 22 | | F |
| | RAMY | 14 | 1254 | 1254 | 1302 | S05 | E56 | 9129 | 08 | 18.7 | 8 | SF | 3 | E | | 28 | | |
| | KANZ | 14 | 1254 | 1255 | 1300 | S06 | E55 | 9129 | 08 | 18.6 | 6 | SF | 2 | E | | | | |
| | SVTO | 14 | 1258E | 1259U | 1301 | S07 | E56 | 9129 | 08 | 18.7 | 3D | SF | 3 | E | | 16 | | F |
| 0157 | RAMY | 14 | 1333 | 1333 | 1339 | N26 | E24 | 9125 | 08 | 16.4 | 6 | SF | 3 | E | | 12 | | FH |
| 0158 | KANZ | 14 | 1424 | 1425 | 1426 | N09 | E45 | 9128 | 08 | 18.0 | 2 | SF | 2 | E | | | | |
| 0159 | | 14 | 14301 | 14311 | 1437 | N23 | E21 | 9125 | 08 | 16.2 | 7 | SF | | | | 11 | | F |
| | KANZ | 14 | 1430 | 1432 | 1438 | N23 | E21 | 9125 | 08 | 16.2 | 8 | SF | 2 | E | | | | |
| | RAMY | 14 | 1431 | 1431 | 1436 | N23 | E21 | 9125 | 08 | 16.2 | 5 | SF | 3 | E | | 11 | | F |
| 0160 | RAMY | 14 | 1541 | 1548 | 1608 | N24 | E21 | 9125 | 08 | 16.3 | 27 | SF | 3 | E | | 19 | | |
| 0161 | RAMY | 14 | 1821 | 1821 | 1829 | S38 | W14 | 9127 | 08 | 13.6 | 8 | SF | 3 | E | | 25 | | |
| 0162 | HOLL | 14 | 1917 | 1921 | 1923 | S37 | W13 | 9127 | 08 | 13.7 | 6 | SF | 3 | E | | 12 | | |
| 0163 | | 14 | 1921* | 19462 | 2004 | N23 | E18 | 9125 | 08 | 16.2 | 43 | SF | | | | 34 | | |
| | RAMY | 14 | 1921 | 1946 | 2016 | N22 | E17 | 9125 | 08 | 16.1 | 55 | SF | 3 | E | | 34 | | |
| | HOLL | 14 | 1938 | 1948 | 1953 | N24 | E20 | 9125 | 08 | 16.4 | 15 | SF | 3 | E | | 33 | | |
| 0164 | RAMY | 14 | 1959 | 2013 | 2045 | S23 | W23 | 9130 | 08 | 13.1 | 46 | SF | 3 | E | | 16 | | |
| 0165 | HOLL | 14 | 2326 | 2326 | 2332 | N20 | W41 | 9122 | 08 | 11.8 | 6 | SF | 3 | E | | 10 | | |

H α SOLAR FLARES

11
Aug 00

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Dur Day | Imp (Min) | Xray | Obs See | Type | Area Measurement | | | Remarks |
|-------|------|-----|------------|----------|----------|-----------------|-----|-------------------------|-----------|------------|--------------|------|------------|------|------------------|----------------------|---------------|---------|
| | | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0166 | HOLL | 14 | 2334 | 2334 | 2342 | S04 | E50 | 9129 | 08 | 18.7 | 8 | SF | 3 | E | | 13 | | |
| 0167 | HOLL | 15 | 0001E | 0001 | 0007 | S38 | W13 | 9127 | 08 | 13.9 | 60 | SF | 3 | E | | 17 | | |
| | | 15 | 0124 | | 0138 | No Flare Patrol | | | | | | | | | | | | |
| 0168 | LEAR | 15 | 0139E | 0153 | 0211 | N21 | E13 | 9125 | 08 | 16.1 | 32D | SF | 3 | E | | 56 | | F |
| 0169 | LEAR | 15 | 0200 | 0201 | 0204 | S06 | E48 | 9129 | 08 | 18.7 | 4 | SF | 3 | E | | 12 | | |
| 0170 | | 15 | 05224 | 0526 | 0533 | N29 | E14 | 9125 | 08 | 16.3 | 11 | SF | | | | 13 | | |
| | KANZ | 15 | 0522 | 0526 | 0536 | N29 | E13 | 9125 | 08 | 16.2 | 14 | SF | 2 | E | | | | |
| | SVTO | 15 | 0526 | 0526 | 0530 | N29 | E14 | 9125 | 08 | 16.3 | 4 | SF | 3 | E | | 13 | | |
| 0171 | KANZ | 15 | 0537 | 0538 | 0540 | N22 | E13 | 9125 | 08 | 16.2 | 3 | SF | 2 | E | | | | |
| 0172 | URUM | 15 | 0602 | 0607 | 0614 | S38 | W19 | 9127 | 08 | 13.7 | 12 | SN | | C | | 129 | 2.0 | E |
| 0173 | KANZ | 15 | 0712 | 0713 | 0718 | S38 | W20 | 9127 | 08 | 13.7 | 6 | SF | 2 | E | | | | |
| 0174 | KHAR | 15 | 0920E | | 0938D | S39 | W18 | 9127 | 08 | 13.9 | 18D | SF | 2 | P | 0929 | 65 | | E |
| 0175 | | 15 | 0924 | 09251 | 0930 | N30 | E10 | 9125 | 08 | 16.2 | 6 | SF | | | | 55 | | E |
| | KANZ | 15 | 0924 | 0925 | 0930 | N28 | E11 | 9125 | 08 | 16.2 | 6 | SF | 2 | E | | | | |
| | KHAR | 15 | 0924 | 0926 | 0938D | N31 | E09 | 9125 | 08 | 16.1 | 14D | SF | 2 | P | 0929 | 55 | | E |
| 0176 | | 15 | 11121 | 11131 | 1118 | S40 | W22 | 9127 | 08 | 13.7 | 6 | SF | | | | 25 | | |
| | RAMY | 15 | 1112 | 1113 | 1119 | S40 | W21 | 9127 | 08 | 13.7 | 7 | SF | 3 | E | | 25 | | |
| | KANZ | 15 | 1113 | 1114 | 1118 | S39 | W23 | 9127 | 08 | 13.6 | 5 | SF | 2 | E | | | | |
| 0177 | RAMY | 15 | 1217 | 1219 | 1224 | S36 | W28 | 9127 | 08 | 13.3 | 7 | SF | 3 | E | | 13 | | |
| 0178 | RAMY | 15 | 1239 | 1239 | 1241 | S36 | W28 | 9127 | 08 | 13.3 | 2 | SF | 3 | E | | 11 | | |
| 0179 | RAMY | 15 | 1308 | 1319 | 1351 | S21 | W34 | 9130 | 08 | 12.9 | 43 | SF | 3 | E | | 12 | | |
| 0180 | RAMY | 15 | 1330 | 1332 | 1349 | S36 | W28 | 9127 | 08 | 13.3 | 19 | SF | 3 | E | | 10 | | |
| 0181 | | 15 | 1359 | 13591 | 1414 | N30 | E09 | 9125 | 08 | 16.3 | 15 | SF | | | | 19 | | F |
| | RAMY | 15 | 1359 | 1359 | 1406 | N29 | E10 | 9125 | 08 | 16.4 | 7 | SF | 3 | E | | 18 | | F |
| | HOLL | 15 | 1359 | 1400 | 1423 | N31 | E08 | 9125 | 08 | 16.2 | 24 | SF | 3 | E | | 20 | | |
| 0182 | RAMY | 15 | 1410 | 1411 | 1420 | N28 | E11 | 9125 | 08 | 16.4 | 10 | SF | 3 | E | | 24 | | F |
| 0183 | HOLL | 15 | 1541 | 1541 | 1559 | S12 | E07 | 9124 | 08 | 16.2 | 18 | SF | 3 | E | | 11 | | |
| 0184 | HOLL | 15 | 1547 | 1547 | 1549 | N25 | E07 | 9125 | 08 | 16.2 | 2 | SF | 3 | E | | 10 | | |
| 0185 | | 15 | 15503 | 1555 | 1616 | N23 | E08 | 9125 | 08 | 16.3 | 26 | SF | | | | 26 | | |
| | HOLL | 15 | 1550 | 1555 | 1619 | N24 | E08 | 9125 | 08 | 16.3 | 29 | SF | 3 | E | | 36 | | |
| | RAMY | 15 | 1553 | 1555 | 1613 | N22 | E09 | 9125 | 08 | 16.3 | 20 | SF | 3 | E | | 17 | | |
| 0186 | HOLL | 15 | 2013 | 2015 | 2018 | N22 | E04 | 9125 | 08 | 16.1 | 5 | SF | 3 | E | | 16 | | |
| 0187 | HOLL | 15 | 2023 | 2023 | 2042 | N21 | E00 | 9125 | 08 | 15.8 | 19 | SF | 3 | E | | 28 | | |
| 0188 | HOLL | 15 | 2043 | 2046 | 2057 | N21 | E00 | 9125 | 08 | 15.9 | 14 | SF | 3 | E | | 45 | | |
| 0189 | HOLL | 15 | 2057 | 2100 | 2106 | N21 | E00 | 9125 | 08 | 15.9 | 9 | SF | 3 | E | | 28 | | |
| 0190 | HOLL | 15 | 2107 | 2108 | 2111 | N21 | E00 | 9125 | 08 | 15.9 | 4 | SF | 3 | E | | 10 | | |
| 0191 | HOLL | 15 | 2225 | 2227 | 2234 | N22 | E02 | 9125 | 08 | 16.1 | 9 | SF | 3 | E | | 31 | | |
| 0192 | HOLL | 15 | 2329 | 2331 | 2357 | S23 | W38 | 9130 | 08 | 13.0 | 28 | SF | 3 | E | | 41 | | |
| 0193 | HOLL | 15 | 2337 | 2338 | 2341 | S39 | W26 | 9127 | 08 | 13.9 | 4 | SF | 3 | E | | 44 | | |
| 0194 | URUM | 16 | 0143E | 0143 | 0143D | N13 | E47 | 9131 | 08 | 19.6 | 4D | 1N | | P | | 161 | 2.4 | E |

12
Aug 00

H α SOLAR FLARES

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF | | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-----------|-----|--------|-----------|---------|------|---------|------|-----------|----------------------|---------------|---------|-----|
| | | | | | | | | Region | Day | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0195 | | 16 | 06131 | 0617 | 0627 | N22 | W59 | 9122 | 08 | 11.7 | 14 | SF | | | | | | 30 | | F |
| | KANZ | 16 | 0613 | 0617 | 0627 | N21 | W59 | 9122 | 08 | 11.7 | 14 | SF | 2 | E | | | | | | |
| | LEAR | 16 | 0614 | 0617 | 0627 | N22 | W59 | 9122 | 08 | 11.7 | 13 | SF | 3 | E | | | | 30 | | F |
| 0196 | KHAR | 16 | 1047E | | 1059 | S03 | E31 | 9129 | 08 | 18.8 | 12D | SF | 2 | P | 1055 | | | 35 | | D |
| 0197 | | 16 | 12161 | 1219 | 1222 | N15 | E40 | 9131 | 08 | 19.5 | 6 | SF | | | | | | 30 | | F |
| | KANZ | 16 | 1216 | 1219 | 1222 | N16 | E40 | 9131 | 08 | 19.5 | 6 | SF | 2 | E | | | | | | |
| | RAMY | 16 | 1217 | 1219 | 1222 | N14 | E41 | 9131 | 08 | 19.6 | 5 | SF | 3 | E | | | | 30 | | F |
| | | 16 | 2234 | | 2329 | No Flare Patrol | | | | | | | | | | | | | | |
| 0198 | LEAR | 16 | 2333E | 2335U | 2339 | N11 | E32 | 9131 | 08 | 19.4 | 6D | SF | 3 | E | | | | 27 | | |
| 0199 | URUM | 17 | 0527 | 0532 | 0535 | N20 | W17 | 9125 | 08 | 15.9 | 8 | SN | | | C | | | 32 | 0.4 | D |
| 0200 | | 17 | 0820 | 0821 | 0826 | N24 | W15 | 9125 | 08 | 16.2 | 6 | SF | | | | | | 46 | 0.7 | EF |
| | KANZ | 17 | 0820 | 0821 | 0826 | N22 | W14 | 9125 | 08 | 16.3 | 6 | SF | 2 | E | | | | | | |
| | LEAR | 17 | 0820 | 0821 | 0827 | N22 | W14 | 9125 | 08 | 16.3 | 7 | SF | 3 | E | | | | 27 | | F |
| | URUM | 17 | 0821E | 0821 | 0821D | N27 | W17 | 9125 | 08 | 16.0 | 7D | SF | | | P | | | 64 | 0.7 | E |
| 0201 | | 17 | 08331 | 08371 | 0848 | N17 | E28 | 9131 | 08 | 19.5 | 15 | 1N | | | | | | 102 | 1.9 | EFH |
| | LEAR | 17 | 0833 | 0837 | 0851 | N17 | E28 | 9131 | 08 | 19.5 | 18 | 1N | 3 | E | | | | 109 | | F |
| | KANZ | 17 | 0833 | 0838 | 0849 | N16 | E28 | 9131 | 08 | 19.5 | 16 | 1F | 2 | E | | | | | | |
| | SVTO | 17 | 0834 | 0838 | 0847 | N17 | E28 | 9131 | 08 | 19.5 | 13 | SF | 3 | E | | | | 36 | | H |
| | URUM | 17 | 0837E | 0837 | 0845 | N18 | E27 | 9131 | 08 | 19.4 | 8D | SN | | | P | | | 161 | 1.9 | E |
| 0202 | LEAR | 17 | 0837 | 0845 | 0854 | S38 | W47 | 9127 | 08 | 13.5 | 17 | SF | 3 | E | | | | 25 | | F |
| 0203 | | 17 | 08401 | 08411 | 0854 | S12 | W18 | 9124 | 08 | 16.0 | 14 | SF | | | | | | 48 | | F |
| | LEAR | 17 | 0840 | 0841 | 0858 | S12 | W18 | 9124 | 08 | 16.0 | 18 | SF | 3 | E | | | | 72 | | F |
| | KANZ | 17 | 0840 | 0842 | 0854 | S12 | W18 | 9124 | 08 | 16.0 | 14 | SN | 2 | E | | | | | | |
| | SVTO | 17 | 0841 | 0841 | 0849 | S12 | W17 | 9124 | 08 | 16.1 | 8 | SF | 3 | E | | | | 23 | | F |
| 0204 | URUM | 17 | 0845E | 0845 | 0901 | N09 | W24 | | 08 | 15.6 | 16D | SN | | | P | | | 161 | 1.8 | E |
| 0205 | KHAR | 17 | 1129U | 1131 | 1140 | S15 | W90 | | 08 | 10.7 | 11U | SN | 2 | P | 1138 | | | 40 | | |
| 0206 | | 17 | 12371 | 12401 | 1256 | N22 | W18 | 9125 | 08 | 16.1 | 19 | SF | | | | | | 52 | | |
| | KANZ | 17 | 1237 | 1240 | 1253 | N21 | W19 | 9125 | 08 | 16.1 | 16 | SF | 2 | E | | | | | | |
| | RAMY | 17 | 1238 | 1241 | 1258 | N22 | W17 | 9125 | 08 | 16.2 | 20 | SF | 3 | E | | | | 52 | | |
| 0207 | | 17 | 13021 | 13044 | 1310 | S38 | W50 | 9127 | 08 | 13.5 | 8 | SF | | | | | | 53 | | |
| | RAMY | 17 | 1302 | 1308 | 1313 | S37 | W50 | 9127 | 08 | 13.5 | 11 | SF | 3 | E | | | | 53 | | |
| | KANZ | 17 | 1303 | 1304 | 1308 | S38 | W50 | 9127 | 08 | 13.5 | 5 | SF | 2 | E | | | | | | |
| 0208 | RAMY | 17 | 1515 | 1516 | 1521 | N17 | E24 | 9131 | 08 | 19.4 | 6 | SF | 3 | E | | | | 15 | | |
| 0209 | RAMY | 17 | 1627 | 1708 | 1739 | N06 | W04 | 9136 | 08 | 17.4 | 72 | SF | 3 | E | | | | 77 | | |
| 0210 | RAMY | 17 | 1946 | 1946 | 1954 | S37 | W53 | 9127 | 08 | 13.5 | 8 | SF | 3 | E | | | | 11 | | |
| | | 17 | 2054 | | 2316 | No Flare Patrol | | | | | | | | | | | | | | |
| 0211 | RAMY | 17 | 2102E | 2102U | 2108D | N07 | W07 | 9136 | 08 | 17.3 | 6D | SF | 3 | E | | | | 57 | | |
| 0212 | LEAR | 18 | 0425 | 0433 | 0516 | S38 | W58 | 9127 | 08 | 13.5 | 51 | 1F | 4 | E | | | | 109 | | F |
| 0213 | KANZ | 18 | 1322 | 1325 | 1328 | N11 | W20 | 9128 | 08 | 17.0 | 6 | SF | 2 | E | | | | | | |
| 0214 | KANZ | 18 | 1556 | 1556 | 1557 | N11 | W21 | 9128 | 08 | 17.1 | 1 | SF | 2 | E | | | | | | |
| 0215 | RAMY | 18 | 1724 | 1726 | 1737 | N31 | W35 | 9125 | 08 | 16.0 | 13 | SF | 3 | E | | | | 16 | | |
| 0216 | RAMY | 18 | 1803 | 1805 | 1809 | N23 | W32 | 9125 | 08 | 16.3 | 6 | SF | 3 | E | | | | 19 | | H |
| 0217 | HOLL | 18 | 1836 | 1836 | 1845 | N29 | W36 | 9125 | 08 | 15.9 | 9 | SF | 3 | E | | | | 49 | | |
| 0218 | HOLL | 18 | 1901 | 1902 | 1909 | N29 | W36 | 9125 | 08 | 16.0 | 8 | SF | 3 | E | | | | 11 | | |

H α SOLAR FLARES

13
Aug 00

AUGUST 2000

| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Dur Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks |
|-------|------|-----|------------|----------|----------|-----|-----|-------------------------|-----------|------------|--------------|------------|------|------------|------|--------------|-------------------------|------------------|---------|
| | | | | | | | | | | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | |
| 0219 | RAMY | 18 | 2122 | 2123 | 2128 | N23 | W33 | 9125 | 08 | 16.3 | 6 | SF | | 3 | E | | 25 | | F |
| | | | 18 2237 | | 2243 | | | No Flare Patrol | | | | | | | | | | | |
| | | | 18 2251 | | 2255 | | | No Flare Patrol | | | | | | | | | | | |
| 0220 | LEAR | 18 | 2351 | 2356 | 2404 | N22 | W34 | 9125 | 08 | 16.4 | 13 | SF | | 3 | E | | 33 | | F |
| 0221 | LEAR | 19 | 0159 | 0200 | 0203 | N21 | W01 | 9132 | 08 | 19.0 | 4 | SF | | 4 | E | | 18 | | |
| 0222 | LEAR | 19 | 0435 | 0437 | 0449 | N22 | W37 | 9125 | 08 | 16.3 | 14 | SF | | 4 | E | | 64 | | EF |
| 0223 | | 19 | 05275 | 05474 | 0621 | N26 | W46 | 9125 | 08 | 15.6 | 54 | SF | | | | | 42 | | F |
| | LEAR | 19 | 0527 | 0551 | 0624 | N26 | W45 | 9125 | 08 | 15.7 | 57 | SF | | 4 | E | | 52 | | F |
| | SVTO | 19 | 0532 | 0547 | 0618 | N26 | W46 | 9125 | 08 | 15.6 | 46 | SF | | 3 | E | | 32 | | |
| 0224 | LEAR | 19 | 0539 | 0545 | 0548 | S39 | W74 | 9127 | 08 | 13.2 | 9 | SF | | 4 | E | | 22 | | |
| 0225 | | 19 | 06571 | 0659 | 0708 | N22 | W04 | 9132 | 08 | 19.0 | 11 | SF | | | | | 38 | | F |
| | LEAR | 19 | 0657 | 0659 | 0710 | N21 | W04 | 9132 | 08 | 19.0 | 13 | SF | | 4 | E | | 53 | | |
| | SVTO | 19 | 0658 | 0659 | 0705 | N22 | W05 | 9132 | 08 | 18.9 | 7 | SF | | 3 | E | | 23 | | F |
| 0226 | KHAR | 19 | 0948 | 0950 | 1005D | N19 | W41 | 9125 | 08 | 16.3 | 17D | SF | | 1 | P | 1005 | 50 | | E |
| 0227 | KANZ | 19 | 1357 | 1359 | 1410 | N25 | W49 | 9125 | 08 | 15.8 | 13 | SF | | 2 | E | | | | |
| 0228 | RAMY | 19 | 1407 | 1407 | 1420 | S09 | W58 | 9133 | 08 | 15.2 | 13 | SF | | 3 | E | | 11 | | |
| 0229 | | 19 | 14234 | 14292 | 1443 | N20 | W44 | 9125 | 08 | 16.2 | 20 | SF | | | | | 25 | | |
| | KANZ | 19 | 1423 | 1429 | 1442 | N21 | W44 | 9125 | 08 | 16.2 | 19 | SF | | 2 | E | | | | |
| | HOLL | 19 | 1427 | 1431 | 1444 | N20 | W44 | 9125 | 08 | 16.2 | 17 | SF | | 3 | E | | 25 | | |
| 0230 | | 19 | 14441 | 14451 | 1452 | S12 | W48 | 9124 | 08 | 16.0 | 8 | SF | | | | | 10 | | |
| | KANZ | 19 | 1444 | 1446 | 1455 | S12 | W49 | 9124 | 08 | 15.9 | 11 | SF | | 2 | E | | | | |
| | HOLL | 19 | 1445 | 1445 | 1450 | S13 | W48 | 9124 | 08 | 16.0 | 5 | SF | | 3 | E | | 10 | | |
| 0231 | HOLL | 19 | 1451 | 1452 | 1455 | S14 | W48 | 9124 | 08 | 16.0 | 4 | SF | | 3 | E | | 13 | | |
| 0232 | RAMY | 19 | 1738 | 1738 | 1818D | N22 | W45 | 9125 | 08 | 16.3 | 40D | SF | | 3 | E | | 19 | | |
| 0233 | HOLL | 19 | 1922 | 1924 | 1949 | N21 | W46 | 9125 | 08 | 16.3 | 27 | 1F | | 3 | E | | 219 | | E |
| 0234 | HOLL | 19 | 1952 | 1952 | 1957 | N19 | W45 | 9125 | 08 | 16.4 | 5 | SF | | 3 | E | | 19 | | |
| 0235 | HOLL | 19 | 1957 | 2002 | 2004 | N21 | W13 | 9132 | 08 | 18.8 | 7 | SF | | 3 | E | | 14 | | |
| 0236 | HOLL | 19 | 2140 | 2142 | 2148 | N27 | W53 | 9125 | 08 | 15.8 | 8 | SF | | 3 | E | | 20 | | |
| 0237 | | 20 | 00164 | 0021 | 0026 | S09 | E36 | 9139 | 08 | 22.7 | 10 | SF | | | | | 45 | | |
| | HOLL | 20 | 0016 | 0021 | 0029 | S08 | E36 | 9139 | 08 | 22.7 | 13 | SF | | 3 | E | | 51 | | |
| | LEAR | 20 | 0020 | 0021 | 0024 | S10 | E36 | 9139 | 08 | 22.7 | 4 | SF | | 3 | E | | 39 | | |
| 0238 | HOLL | 20 | 0045 | 0048 | 0055 | S08 | E36 | 9139 | 08 | 22.7 | 10 | SF | | 3 | E | | 19 | | |
| 0239 | HOLL | 20 | 0102 | 0104 | 0106 | N22 | W48 | 9125 | 08 | 16.3 | 4 | SF | | 3 | E | | 12 | | |
| 0240 | HOLL | 20 | 0111 | 0111U | 0115 | N22 | W48 | 9125 | 08 | 16.4 | 4 | SF | | 3 | E | | 11 | | |
| 0241 | URUM | 20 | 0446 | 0454 | 0454D | N21 | W17 | 9131 | 08 | 18.9 | 8D | SF | | | P | | 32 | 0.4 | D |
| 0242 | URUM | 20 | 0818 | 0820 | 0844 | N24 | W08 | | 08 | 19.7 | 26 | SF | | | C | | 32 | 0.3 | D |
| 0243 | | 20 | 0858 | 08581 | 0916 | N25 | W54 | 9125 | 08 | 16.2 | 18 | SF | | | | | 27 | | F |
| | LEAR | 20 | 0858 | 0858 | 0916 | N25 | W55 | 9125 | 08 | 16.1 | 18 | SF | | 4 | E | | 27 | | F |
| | KANZ | 20 | 0858 | 0859 | 0915 | N25 | W53 | 9125 | 08 | 16.3 | 17 | SF | | 2 | E | | | | |
| 0244 | URUM | 20 | 0910E | 0910 | 0916 | N12 | W43 | 9128 | 08 | 17.1 | 6D | SN | | | P | | 145 | 2.0 | E |
| 0245 | KHAR | 20 | 0915E | | 0930 | S08 | E32 | 9139 | 08 | 22.8 | 15D | SF | | 2 | P | 0923 | 35 | | E |

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/USAF | | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Time (UT) | Area Measurement | | Remarks | |
|-------|------|-----|------------|----------|----------|-----|-----|-----------|-----|--------|-----------|---------|------|---------|------|-----------|----------------------|---------------|---------|-----|
| | | | | | | | | Region | Day | | | | | | | | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0246 | | 20 | 13168 | 13195 | 1340 | N27 | W57 | 9125 | 08 | 16.1 | 24 | SF | | | | | | 35 | | F |
| | RAMY | 20 | 1316 | 1319 | 1329 | N29 | W56 | 9125 | 08 | 16.2 | 13 | SF | | 3 | E | | | 35 | | F |
| | KANZ | 20 | 1317 | 1324 | 1337 | N27 | W58 | 9125 | 08 | 16.0 | 20 | SF | | 2 | E | | | | | |
| | HOLL | 20 | 1324 | 1324 | 1354 | N25 | W58 | 9125 | 08 | 16.1 | 30 | SF | | 3 | E | | | 35 | | |
| 0247 | HOLL | 20 | 1324 | 1426 | 1435 | N20 | W58 | 9123 | 08 | 16.1 | 71 | 1F | | 3 | E | | | 192 | | |
| 0248 | HOLL | 20 | 1436 | 1438 | 1451 | N21 | W59 | 9123 | 08 | 16.1 | 15 | SF | | 3 | E | | | 52 | | |
| 0249 | HOLL | 20 | 1451 | 1642 | 1657 | N21 | W60 | 9123 | 08 | 16.0 | 126 | SF | | 3 | E | | | 35 | | |
| 0250 | HOLL | 20 | 1521 | 1523 | 1525 | N21 | W59 | 9125 | 08 | 16.1 | 4 | SF | | 3 | E | | | 17 | | |
| 0251 | HOLL | 20 | 1542 | 1543 | 1548 | N26 | W57 | 9125 | 08 | 16.2 | 6 | SF | | 3 | E | | | 23 | | |
| 0252 | HOLL | 20 | 1600 | 1602 | 1622 | N20 | W60 | 9125 | 08 | 16.1 | 22 | SF | | 3 | E | | | 12 | | |
| 0253 | HOLL | 20 | 1741 | 1746 | 1750 | N21 | W58 | 9125 | 08 | 16.3 | 9 | SF | | 3 | E | | | 29 | | |
| 0254 | HOLL | 20 | 2000 | 2002 | 2009 | N21 | W59 | 9125 | 08 | 16.3 | 9 | SF | | 3 | E | | | 34 | | |
| 0255 | HOLL | 20 | 2131 | 2133 | 2145 | S14 | W55 | 9124 | 08 | 16.7 | 14 | SF | | 3 | E | | | 17 | | |
| 0256 | HOLL | 20 | 2216 | 2221 | 2229 | N21 | W63 | 9125 | 08 | 16.1 | 13 | SF | | 3 | E | | | 14 | | |
| 0257 | HOLL | 20 | 2232 | 2238 | 2245 | N21 | W63 | 9125 | 08 | 16.1 | 13 | SF | | 3 | E | | | 31 | | |
| 0258 | HOLL | 20 | 2252 | 2256 | 2300 | N19 | W63 | 9125 | 08 | 16.1 | 8 | SF | | 3 | E | | | 28 | | |
| 0259 | | 20 | 23161 | 2322 | 2346 | N22 | W26 | 9132 | 08 | 19.0 | 30 | SF | | | | | | 86 | | F |
| | HOLL | 20 | 2316 | 2322 | 2345 | N20 | W28 | 9132 | 08 | 18.8 | 29 | SF | | 3 | E | | | 87 | | |
| | LEAR | 20 | 2317 | 2319U | 2346 | N23 | W25 | 9132 | 08 | 19.0 | 29 | SF | | 2 | E | | | 84 | | F |
| 0260 | | 21 | 0015 | 00152 | 0028 | N22 | W62 | 9125 | 08 | 16.2 | 13 | SF | | | | | | 50 | | F |
| | LEAR | 21 | 0015 | 0015 | 0024 | N24 | W62 | 9125 | 08 | 16.2 | 9 | SF | | 2 | E | | | 30 | | F |
| | HOLL | 21 | 0015 | 0017 | 0031 | N21 | W61 | 9125 | 08 | 16.3 | 16 | SF | | 3 | E | | | 71 | | |
| 0261 | LEAR | 21 | 0307 | 0312 | 0321 | N28 | W63 | 9125 | 08 | 16.2 | 14 | SF | | 3 | E | | | 16 | | |
| 0262 | | 21 | 0532 | 05391 | 0556 | N22 | W66 | 9125 | 08 | 16.1 | 24 | 1F | | | | | | 96 | | F |
| | KANZ | 21 | 0532 | 0539 | 0601 | N22 | W65 | 9125 | 08 | 16.2 | 29 | 1F | | 2 | E | | | | | |
| | LEAR | 21 | 0532 | 0540 | 0600 | N22 | W67 | 9125 | 08 | 16.1 | 28 | 1F | | 3 | E | | | 153 | | F |
| | SVTO | 21 | 0536E | 0538U | 0548 | N22 | W66 | 9125 | 08 | 16.2 | 12D | SF | | 2 | E | | | 39 | | |
| 0263 | LEAR | 21 | 0741 | 0744 | 0809 | N23 | W67 | 9125 | 08 | 16.1 | 28 | SF | | 3 | E | | | 19 | | F |
| 0264 | RAMY | 21 | 1250 | 1301 | 1318 | N24 | W69 | 9125 | 08 | 16.2 | 28 | SF | | 3 | E | | | 53 | | F |
| 0265 | RAMY | 21 | 1338 | 1338 | 1348 | N24 | W70 | 9125 | 08 | 16.1 | 10 | SF | | 3 | E | | | 13 | | F |
| 0266 | RAMY | 21 | 1736 | 1737 | 1743 | S06 | W46 | 9129 | 08 | 18.3 | 7 | SF | | 3 | E | | | 13 | | |
| 0267 | HOLL | 21 | 1918 | 1919 | 1923 | N21 | W75 | 9125 | 08 | 16.0 | 5 | SF | | 3 | E | | | 16 | | |
| 0268 | HOLL | 21 | 2134 | 2135 | 2146 | N21 | W76 | 9125 | 08 | 16.1 | 12 | SF | | 3 | E | | | 55 | | F |
| 0269 | HOLL | 21 | 2146 | 2146 | 2154 | S16 | W71 | 9135 | 08 | 16.5 | 8 | SF | | 3 | E | | | 12 | | |
| 0270 | LEAR | 22 | 0516 | 0516 | 0526 | N15 | W34 | 9131 | 08 | 19.6 | 10 | SF | | 3 | E | | | 40 | | |
| 0271 | | 22 | 06001 | 0602 | 0609 | S05 | W48 | 9129 | 08 | 18.6 | 9 | SF | | | | | | 28 | | F |
| | SVTO | 22 | 0600 | 0602 | 0607 | S05 | W49 | 9129 | 08 | 18.6 | 7 | SF | | 3 | E | | | 17 | | F |
| | KANZ | 22 | 0600 | 0602 | 0611 | S05 | W48 | 9129 | 08 | 18.6 | 11 | SF | | 2 | E | | | | | |
| | LEAR | 22 | 0601 | 0602 | 0610 | S06 | W48 | 9129 | 08 | 18.6 | 9 | SF | | 3 | E | | | 40 | | F |
| 0272 | | 22 | 09365 | 09422 | 0953 | N15 | W38 | 9131 | 08 | 19.5 | 17 | SN | | | | | | 103 | | FHO |
| | LEAR | 22 | 0936 | 0940U | 0943D | N16 | W39 | 9131 | 08 | 19.4 | 7D | SF | | 3 | E | | | 96 | | |
| | KHAR | 22 | 0940U | 0942 | 0957 | N13 | W38 | 9131 | 08 | 19.5 | 17U | 1N | | 2 | P | 0946 | | 180 | | HO |
| | KANZ | 22 | 0941 | 0943 | 0952 | N16 | W37 | 9131 | 08 | 19.6 | 11 | SN | | 2 | E | | | | | |
| | SVTO | 22 | 0941 | 0944 | 0951 | N16 | W36 | 9131 | 08 | 19.7 | 10 | SF | | 3 | E | | | 33 | | F |

H α SOLAR FLARES

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ | CMP | Dur | Imp | Obs | Area Measurement | | | Remarks | | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-------------|-----|------|-----|-----|------------------|-----|-----------|---------|----------------------|---------------|
| | | | | | | | | USAF Region | | | | | Mo | Day | Time (UT) | | Apparent (10-6 Disk) | Corr (Sq Deg) |
| 0273 | KHAR | 22 | 0955 | 1002 | 1015 | S11 | W54 | 9129 | 08 | 18.3 | 20 | SF | 2 | P | 1012 | 30 | | H |
| 0274 | KHAR | 22 | 1148 | 1152 | 1158 | N27 | W76 | 9125 | 08 | 16.6 | 10 | SF | 2 | V | | | | D |
| 0275 | HOLL | 22 | 1734 | 1734 | 1738 | S09 | E00 | 9139 | 08 | 22.7 | 4 | SF | 3 | E | | 13 | | |
| 0276 | HOLL | 22 | 2154 | 2159 | 2214 | N14 | W46 | 9131 | 08 | 19.4 | 20 | SF | 3 | E | | 34 | | |
| | | 22 | 2304 | | 2317 | No Flare Patrol | | | | | | | | | | | | |
| 0277 | URUM | 23 | 0116 | 0120 | 0124 | N16 | W48 | 9131 | 08 | 19.4 | 8 | SN | | C | | 80 | 1.2 | E |
| 0278 | URUM | 23 | 0302E | 0302 | 0302D | N15 | W47 | 9131 | 08 | 19.6 | 8D | SF | | P | | 64 | 1.0 | D |
| 0279 | | 23 | 04462 | 04522 | 0502 | N16 | W50 | 9131 | 08 | 19.4 | 16 | SN | | | | 35 | 0.8 | D |
| | URUM | 23 | 0446 | 0454 | 0454D | N15 | W51 | 9131 | 08 | 19.3 | 8D | SN | | P | | 48 | 0.8 | D |
| | LEAR | 23 | 0448 | 0452 | 0502 | N16 | W50 | 9131 | 08 | 19.4 | 14 | SF | 3 | E | | 22 | | |
| 0280 | URUM | 23 | 0450 | 0454 | 0530 | S11 | W05 | 9139 | 08 | 22.8 | 40 | SN | | C | | 0 | | 8 |
| 0281 | URUM | 23 | 0826 | 0830 | 0837 | N13 | W18 | | 08 | 22.0 | 11 | SF | | C | | 48 | 0.5 | E |
| 0282 | KHAR | 23 | 0920E | | 0958 | N12 | W53 | 9131 | 08 | 19.4 | 38D | SF | 2 | P | 0946 | 50 | | DL |
| 0283 | KHAR | 23 | 0955E | | 1005 | S11 | W67 | 9129 | 08 | 18.4 | 10D | SF | 2 | V | | | | DH |
| 0284 | HOLL | 23 | 1334 | 1336 | 1338 | N13 | W56 | 9131 | 08 | 19.3 | 4 | SF | 3 | E | | 22 | | |
| 0285 | HOLL | 23 | 1339 | 1345 | 1353 | N13 | W55 | 9131 | 08 | 19.4 | 14 | SF | 3 | E | | 24 | | |
| 0286 | HOLL | 23 | 1420 | 1420 | 1432 | N13 | W57 | 9131 | 08 | 19.3 | 12 | SF | 3 | E | | 15 | | |
| 0287 | HOLL | 23 | 1654 | 1654 | 1700 | S09 | W12 | 9139 | 08 | 22.8 | 6 | SF | 3 | E | | 10 | | |
| | | 23 | 2002 | | 2037 | No Flare Patrol | | | | | | | | | | | | |
| | | 23 | 2112 | | 2128 | No Flare Patrol | | | | | | | | | | | | |
| | | 23 | 2208 | | 2213 | No Flare Patrol | | | | | | | | | | | | |
| | | 23 | 2258 | | 2307 | No Flare Patrol | | | | | | | | | | | | |
| 0288 | LEAR | 24 | 0550 | 0550 | 0552 | S19 | E88 | 9143 | 08 | 30.9 | 2 | SF | 3 | E | | 23 | | |
| | | 24 | 1105 | | 1118 | No Flare Patrol | | | | | | | | | | | | |
| 0289 | | 24 | 1351 | 1352 | 1357 | S18 | E78 | 9143 | 08 | 30.5 | 6 | SF | | | | 14 | | |
| | SVTO | 24 | 1351 | 1352 | 1354 | S19 | E79 | 9143 | 08 | 30.6 | 3 | SF | 3 | E | | 14 | | |
| | KANZ | 24 | 1351 | 1352 | 1400 | S18 | E77 | 9143 | 08 | 30.4 | 9 | SF | 2 | E | | | | |
| 0290 | HOLL | 24 | 1409 | 1414 | 1417 | S16 | E78 | 9143 | 08 | 30.5 | 8 | SF | 3 | E | | 22 | | |
| 0291 | | 24 | 1442 | 14452 | 1452 | N17 | E75 | 9142 | 08 | 30.3 | 10 | SF | | | | 26 | | |
| | HOLL | 24 | 1442 | 1445 | 1454 | N18 | E77 | 9142 | 08 | 30.5 | 12 | SF | 3 | E | | 26 | | |
| | KANZ | 24 | 1442 | 1447 | 1451 | N16 | E73 | 9142 | 08 | 30.1 | 9 | SF | 2 | E | | | | |
| | | 24 | 2229 | | 2234 | No Flare Patrol | | | | | | | | | | | | |
| 0292 | | 25 | 03521 | 0357 | 0402 | N08 | E36 | 9140 | 08 | 27.9 | 10 | SN | | | | 46 | 0.8 | E |
| | LEAR | 25 | 0352 | 0357 | 0403 | N07 | E36 | 9140 | 08 | 27.8 | 11 | SF | 4 | E | | 27 | | |
| | URUM | 25 | 0353 | 0357 | 0401 | N08 | E35 | 9140 | 08 | 27.8 | 8 | SN | | C | | 64 | 0.8 | E |
| 0293 | URUM | 25 | 0357 | 0405 | 0412 | N17 | W59 | | 08 | 20.7 | 15 | 1F | | C | | 161 | 3.2 | E |
| 0294 | LEAR | 25 | 0735 | 0736 | 0741 | S17 | E69 | 9143 | 08 | 30.5 | 6 | SF | 4 | E | | 21 | | FH |
| 0295 | HOLL | 25 | 1340 | 1342 | 1350 | N26 | E20 | 9144 | 08 | 27.1 | 10 | SF | 3 | E | | 10 | | |
| 0296 | | 25 | 14242 | 1433 | 1458 | S16 | E65 | 9143 | 08 | 30.5 | 34 | 1N | | | | 139 | | F |
| | HOLL | 25 | 1424 | 1433 | 1502 | S15 | E67 | 9143 | 08 | 30.7 | 38 | 1N | 3 | E | | 207 | | F |
| | RAMY | 25 | 1425 | 1433 | 1458 | S17 | E64 | 9143 | 08 | 30.5 | 33 | 1N | 3 | E | | 136 | | |
| | SVTO | 25 | 1426 | 1433 | 1454 | S16 | E65 | 9143 | 08 | 30.5 | 28 | SF | 3 | E | | 73 | | F |

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks | |
|-------|------|-------|------------|----------|-----------------|-----|------|-------------------------|-----------|------|--------------|------------|------|------------|------|------------------|----------------------|---------------|---------|---|
| | | | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0297 | URUM | 26 | 0423 | 0427 | 0431 | N26 | E10 | 9144 | 08 | 26.9 | 8 | SN | | | C | | 64 | 0.7 | E | |
| 0298 | KANZ | 26 | 0907 | 0908 | 0911 | N25 | E09 | 9144 | 08 | 27.1 | 4 | SF | | 2 | E | | | | | |
| 0299 | KANZ | 26 | 0927 | 0928 | 0932 | N25 | E08 | 9144 | 08 | 27.0 | 5 | SF | | 2 | E | | | | | |
| 0300 | KANZ | 26 | 0945 | 0946 | 0948 | N25 | E08 | 9144 | 08 | 27.0 | 3 | SF | | 2 | E | | | | | |
| 0301 | KANZ | 26 | 1201 | 1203 | 1207 | N25 | E07 | 9144 | 08 | 27.0 | 6 | SF | | 2 | E | | | | | |
| 0302 | KANZ | 26 | 1211 | 1212 | 1216 | S18 | E54 | 9143 | 08 | 30.6 | 5 | SF | | 2 | E | | | | | |
| 0303 | 26 | 1413 | 1414 | 1425 | N25 | E06 | 9144 | 08 | 27.0 | 12 | SF | | | | | | 11 | | | |
| | KANZ | 26 | 1413 | 1414 | 1425 | N25 | E06 | 9144 | 08 | 27.0 | 12 | SF | | 2 | E | | | | | |
| | HOLL | 26 | 1414E | 1414U | 1425D | N25 | E07 | 9144 | 08 | 27.1 | 11D | SF | | 3 | E | | | | 11 | |
| | 26 | 1835 | | 1842 | No Flare Patrol | | | | | | | | | | | | | | | |
| | 26 | 1955 | | 2004 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0304 | HOLL | 26 | 2044 | 2047 | 2050 | S18 | E50 | 9143 | 08 | 30.7 | 6 | SF | | 3 | E | | | 15 | | |
| | 26 | 2144 | | 2208 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0305 | HOLL | 26 | 2202E | 2215 | 2232 | N26 | E02 | 9144 | 08 | 27.1 | 30D | 1N | | 3 | E | | | 129 | F | |
| 0306 | HOLL | 26 | 2257 | 2259 | 2302 | S09 | E76 | 9145 | 09 | 1.7 | 5 | SF | | 3 | E | | | 14 | | |
| | 26 | 2315 | | 2323 | No Flare Patrol | | | | | | | | | | | | | | | |
| | 26 | 2328 | | 2335 | No Flare Patrol | | | | | | | | | | | | | | | |
| 0307 | URUM | 27 | 0253E | 0253 | 0253D | N26 | W01 | 9144 | 08 | 27.0 | 5D | SN | | | P | | | 96 | 1.0 | E |
| 0308 | URUM | 27 | 0333 | 0334 | 0348 | N25 | W01 | 9144 | 08 | 27.1 | 15 | SN | | | C | | | 48 | 0.5 | D |
| 0309 | URUM | 27 | 0408E | 0408 | 0408D | N25 | W02 | 9144 | 08 | 27.0 | 15D | SN | | | P | | | 80 | 0.9 | E |
| 0310 | URUM | 27 | 0412 | 0416 | 0424 | S19 | E51 | 9143 | 08 | 31.1 | 12 | SF | | | C | | | 32 | 0.6 | E |
| 0311 | URUM | 27 | 0507E | 0507 | 0511 | N26 | W03 | 9144 | 08 | 27.0 | 4D | SN | | | P | | | 80 | 0.9 | E |
| 0312 | URUM | 27 | 0650 | 0654 | 0712 | S18 | E47 | 9143 | 08 | 30.9 | 22 | 1N | | | C | | | 161 | 2.7 | E |
| 0313 | URUM | 27 | 0856 | 0900 | 0916 | S19 | E45 | 9143 | 08 | 30.8 | 20 | SF | | | C | | | 48 | 0.8 | E |
| 0314 | KANZ | 27 | 1015 | 1015 | 1024 | S19 | E43 | 9143 | 08 | 30.7 | 9 | SF | | 2 | E | | | | | |
| 0315 | KANZ | 27 | 1023 | 1025 | 1031 | S15 | W04 | | 08 | 27.1 | 8 | SF | | 2 | E | | | | | |
| 0316 | KANZ | 27 | 1033 | 1041 | 1044 | S18 | E44 | 9143 | 08 | 30.8 | 11 | SF | | 2 | E | | | | | |
| 0317 | 27 | 10592 | 1102 | 1109 | S19 | E42 | 9143 | 08 | 30.7 | 10 | SF | | | | | | | 20 | | |
| | KANZ | 27 | 1059 | 1102 | 1110 | S18 | E43 | 9143 | 08 | 30.7 | 11 | SF | | 2 | E | | | | | |
| | SVTO | 27 | 1101 | 1102 | 1108 | S18 | E43 | 9143 | 08 | 30.7 | 7 | SF | | 3 | E | | | | 19 | |
| | RAMY | 27 | 1102E | 1103U | 1108D | S21 | E40 | 9143 | 08 | 30.5 | 6D | SF | | 2 | E | | | | 21 | |
| 0318 | KANZ | 27 | 1206 | 1207 | 1216D | N25 | W02 | 9144 | 08 | 27.3 | 10D | SN | | 2 | E | | | | | |
| 0319 | RAMY | 27 | 1239 | 1239 | 1246 | N08 | E06 | 9140 | 08 | 28.0 | 7 | SF | | 3 | E | | | 10 | | |
| 0320 | HOLL | 27 | 1602 | 1605 | 1619 | S18 | E38 | 9143 | 08 | 30.6 | 17 | SF | | 3 | E | | | 15 | | |
| 0321 | RAMY | 27 | 1658 | 1703 | 1741 | N09 | E05 | 9140 | 08 | 28.1 | 43 | SF | | 3 | E | | | 36 | | |
| 0322 | RAMY | 27 | 1714 | 1714 | 1719 | N29 | W04 | 9144 | 08 | 27.4 | 5 | SF | | 3 | E | | | 10 | | |
| 0323 | HOLL | 27 | 1721 | 1721 | 1726 | S15 | E41 | 9143 | 08 | 30.8 | 5 | SF | | 3 | E | | | 10 | | |
| 0324 | 27 | 17234 | 17362 | 1808 | S16 | E40 | 9143 | 08 | 30.7 | 45 | SF | | | | | | | 74 | | |
| | RAMY | 27 | 1723 | 1736 | 1806 | S16 | E40 | 9143 | 08 | 30.7 | 43 | SF | | 3 | E | | | 62 | | |
| | HOLL | 27 | 1727 | 1738 | 1809 | S17 | E40 | 9143 | 08 | 30.8 | 42 | SF | | 3 | E | | | 87 | | |

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | NOAA/ USAF Region | CMP Mo | Day | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | | Remarks | |
|-------|------|-----|------------|----------|----------|-----------------|-----|-------------------------|-----------|------|--------------|------------|------|------------|------|------------------|-------------------------|------------------|---------|---|
| | | | | | | | | | | | | | | | | Time (UT) | Apparent (10-6 Disk) | Corr (Sq Deg) | | |
| 0325 | HOLL | 27 | 1853 | 1856 | 1918 | S17 | E39 | 9143 | 08 | 30.7 | 25 | SF | | 3 | E | | 77 | | | |
| 0326 | HOLL | 27 | 1925 | 1930 | 2000 | S18 | E38 | 9143 | 08 | 30.7 | 35 | SF | | 3 | E | | 46 | | | |
| 0327 | HOLL | 27 | 2231 | 2257 | 2411 | S18 | E37 | 9143 | 08 | 30.7 | 100 | SF | | 3 | E | | 45 | | | |
| 0328 | URUM | 28 | 0312 | 0316 | 0316D | S19 | E36 | 9143 | 08 | 30.9 | 4D | SF | | | P | | 80 | 1.1 | E | |
| 0329 | URUM | 28 | 0959 | 1003 | 1003D | N10 | W06 | 9140 | 08 | 28.0 | 4D | SF | | | P | | 161 | 1.7 | E | |
| 0330 | RAMY | 28 | 1142 | 1143 | 1150 | S21 | E24 | 9143 | 08 | 30.3 | 8 | SF | | 3 | E | | 19 | | | |
| | | 28 | 1153 | | 1157 | No Flare Patrol | | | | | | | | | | | | | | |
| 0331 | SVTO | 28 | 1211 | 1226 | 1308 | S18 | E24 | 9143 | 08 | 30.3 | 57 | SF | | 3 | E | | 69 | | | F |
| 0332 | SVTO | 28 | 1308 | 1311 | 1313 | S19 | E30 | 9143 | 08 | 30.8 | 5 | SF | | 3 | E | | 22 | | | F |
| 0333 | SVTO | 28 | 1314 | 1314 | 1320 | S19 | E30 | 9143 | 08 | 30.8 | 6 | SF | | 3 | E | | 28 | | | F |
| 0334 | RAMY | 28 | 1631 | 1631 | 1634 | S19 | E23 | 9143 | 08 | 30.4 | 3 | SF | | 3 | E | | 13 | | | |
| 0335 | RAMY | 28 | 1658 | 1658 | 1706 | S29 | E44 | 9146 | 09 | 1.1 | 8 | SF | | 3 | E | | 15 | | | |
| 0336 | RAMY | 28 | 1659 | 1703 | 1733D | S17 | E24 | 9143 | 08 | 30.5 | 34D | 1N | | 3 | E | | 140 | | | |
| | | 28 | 1734 | | 1922 | No Flare Patrol | | | | | | | | | | | | | | |
| 0337 | HOLL | 28 | 2001 | 2003 | 2012 | S20 | E20 | 9143 | 08 | 30.4 | 11 | SF | | 3 | E | | 36 | | | |
| 0338 | HOLL | 28 | 2013 | 2015 | 2018 | S20 | E20 | 9143 | 08 | 30.4 | 5 | SF | | 3 | E | | 17 | | | |
| 0339 | HOLL | 28 | 2020 | 2021 | 2024 | S19 | E20 | 9143 | 08 | 30.4 | 4 | SF | | 3 | E | | 15 | | | |
| 0340 | HOLL | 28 | 2024 | 2027 | 2145 | S19 | E20 | 9143 | 08 | 30.4 | 81 | SF | | 3 | E | | 57 | | | |
| 0341 | HOLL | 28 | 2055 | 2102 | 2111 | N09 | W13 | 9140 | 08 | 27.9 | 16 | SF | | 3 | E | | 34 | | | |
| 0342 | HOLL | 28 | 2153 | 2154 | 2200 | S19 | E19 | 9143 | 08 | 30.4 | 7 | SF | | 3 | E | | 13 | | | |
| 0343 | HOLL | 28 | 2201 | 2204 | 2208 | S19 | E19 | 9143 | 08 | 30.4 | 7 | SF | | 3 | E | | 11 | | | |
| | | 28 | 2235 | | 2400 | No Flare Patrol | | | | | | | | | | | | | | |
| 0344 | URUM | 29 | 0134 | 0138 | 0142 | N08 | W15 | 9140 | 08 | 27.9 | 8 | SF | | | C | | 32 | 0.3 | D | |
| 0345 | KANZ | 29 | 0853 | 0853U | 0854D | S19 | E13 | 9143 | 08 | 30.4 | 1D | SF | | 2 | E | | | | | |
| 0346 | KANZ | 29 | 0938 | 0938 | 0944 | S18 | E14 | 9143 | 08 | 30.5 | 6 | SF | | 2 | E | | | | | |
| 0347 | URUM | 29 | 1137E | 1137 | 1137D | N09 | W20 | 9140 | 08 | 28.0 | 6D | SF | | | P | | 161 | 1.8 | E | |
| 0348 | RAMY | 29 | 1348 | 1351 | 1402 | S31 | E05 | 9143 | 08 | 30.0 | 14 | SF | | 3 | E | | 21 | | | F |
| 0349 | | 29 | 1349 | 1351 | 1402 | S18 | E14 | 9143 | 08 | 30.6 | 13 | SF | | | | | 31 | | | |
| | KANZ | 29 | 1349 | 1351 | 1400 | S17 | E13 | 9143 | 08 | 30.6 | 11 | SF | | 2 | E | | | | | |
| | HOLL | 29 | 1349E | 1351 | 1403 | S18 | E14 | 9143 | 08 | 30.6 | 14D | SF | | 3 | E | | 31 | | | |
| 0350 | | 29 | 1435 | 1435I | 1440 | N11 | W21 | 9140 | 08 | 28.0 | 5 | SF | | | | | 20 | | | |
| | KANZ | 29 | 1435 | 1435 | 1440 | N11 | W21 | 9140 | 08 | 28.0 | 5 | SF | | 2 | E | | | | | |
| | RAMY | 29 | 1435 | 1436 | 1439 | N11 | W21 | 9140 | 08 | 28.0 | 4 | SF | | 3 | E | | 20 | | | |
| 0351 | | 29 | 14404 | 14405 | 1450 | N12 | E63 | 9149 | 09 | 3.3 | 10 | SF | | | | | 14 | | | |
| | KANZ | 29 | 1440 | 1440 | 1452 | N13 | E63 | 9149 | 09 | 3.4 | 12 | SF | | 2 | E | | | | | |
| | RAMY | 29 | 1444 | 1445 | 1449 | N10 | E63 | 9149 | 09 | 3.3 | 5 | SF | | 3 | E | | 14 | | | |
| 0352 | KANZ | 29 | 1500 | 1504U | 1510 | S15 | E15 | 9143 | 08 | 30.8 | 10 | SF | | 2 | E | | | | | |

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| Grp # | Sta | Day | Start (UT) | Max (UT) | End (UT) | NOAA/USAF | | | CMP Mo | Dur (Min) | Imp Opt | Xray | Obs See | Type | Area Measurement | | Remarks |
|-------|------|-----|------------|----------|----------|-----------------|-----|------|--------|-----------|---------|------|---------|------|------------------|----------------------|---------|
| | | | | | | Region | Lat | CMD | | | | | | | Time (UT) | Apparent (10-6 Disk) | |
| 0353 | | 29 | 1511 | 1512 | 1520 | S20 | E15 | 9143 | 08 | 30.8 | 9 | SF | | | 18 | | |
| | KANZ | 29 | 1511 | 1512 | 1521 | S19 | E15 | 9143 | 08 | 30.8 | 10 | SF | 2 | E | | | |
| | RAMY | 29 | 1511 | 1512 | 1522 | S20 | E14 | 9143 | 08 | 30.7 | 11 | SF | 3 | E | 25 | | |
| | SVTO | 29 | 1512 | 1513 | 1518 | S20 | E15 | 9143 | 08 | 30.8 | 6 | SF | 3 | E | 12 | | |
| 0354 | | 29 | 1517 | 1519 | 1530 | N03 | E68 | 9147 | 09 | 3.7 | 13 | SN | | | 62 | | |
| | SVTO | 29 | 1517 | 1519U | 1527D | N03 | E68 | 9147 | 09 | 3.7 | 10D | SN | 3 | E | 61 | | |
| | KANZ | 29 | 1517 | 1519 | 1529 | N04 | E68 | 9147 | 09 | 3.7 | 12 | SN | 2 | E | | | |
| | RAMY | 29 | 1517 | 1519 | 1530 | N01 | E68 | 9147 | 09 | 3.7 | 13 | SN | 3 | E | 62 | | |
| 0355 | RAMY | 29 | 1715 | 1737 | 1746 | S20 | E14 | 9143 | 08 | 30.8 | 31 | SF | 3 | E | 29 | | |
| 0356 | RAMY | 29 | 1752 | 1758 | 1803 | N10 | E62 | 9149 | 09 | 3.4 | 11 | SF | 3 | E | 15 | | |
| 0357 | RAMY | 29 | 1757 | 1757 | 1801 | N08 | W24 | 9140 | 08 | 27.9 | 4 | SF | 3 | E | 12 | | |
| | | 29 | 1905 | | 1953 | No Flare Patrol | | | | | | | | | | | |
| | | 29 | 2242 | | 2341 | No Flare Patrol | | | | | | | | | | | |
| 0358 | HOLL | 30 | 1610 | 1632 | 1701 | N10 | W30 | 9140 | 08 | 28.4 | 51 | SF | 3 | E | 32 | | F |
| 0359 | RAMY | 30 | 1815 | 1816 | 1821 | S19 | W06 | 9143 | 08 | 30.3 | 6 | SF | 3 | E | 28 | | FH |
| | | 31 | 0135 | | 0159 | No Flare Patrol | | | | | | | | | | | |
| 0360 | LEAR | 31 | 0242E | 0243U | 0304D | S14 | W06 | 9143 | 08 | 30.6 | 22D | SF | 3 | E | 27 | | F |
| | | 31 | 0251 | | 0340 | No Flare Patrol | | | | | | | | | | | |
| 0361 | LEAR | 31 | 0653 | 0659 | 0706 | S18 | W09 | 9143 | 08 | 30.6 | 13 | SF | 3 | E | 15 | | |
| | | 31 | 1221 | | 1233 | No Flare Patrol | | | | | | | | | | | |
| 0362 | RAMY | 31 | 1235 | 1237 | 1310 | S16 | W12 | 9143 | 08 | 30.6 | 35 | SF | 3 | E | 79 | | F |
| | | 31 | 1240 | | 1303 | No Flare Patrol | | | | | | | | | | | |
| | | 31 | 1323 | | 1338 | No Flare Patrol | | | | | | | | | | | |
| | | 31 | 1405 | | 2129 | No Flare Patrol | | | | | | | | | | | |
| 0363 | RAMY | 31 | 1518 | 1519 | 1524 | S18 | W14 | 9143 | 08 | 30.6 | 6 | SF | 3 | E | 22 | | |
| | | 31 | 2138 | | 2321 | No Flare Patrol | | | | | | | | | | | |
| 0364 | HOLL | 31 | 2326 | 2326 | 2339 | S21 | E60 | 9154 | 09 | 5.6 | 13 | SF | 3 | E | 12 | | |

"Remarks"

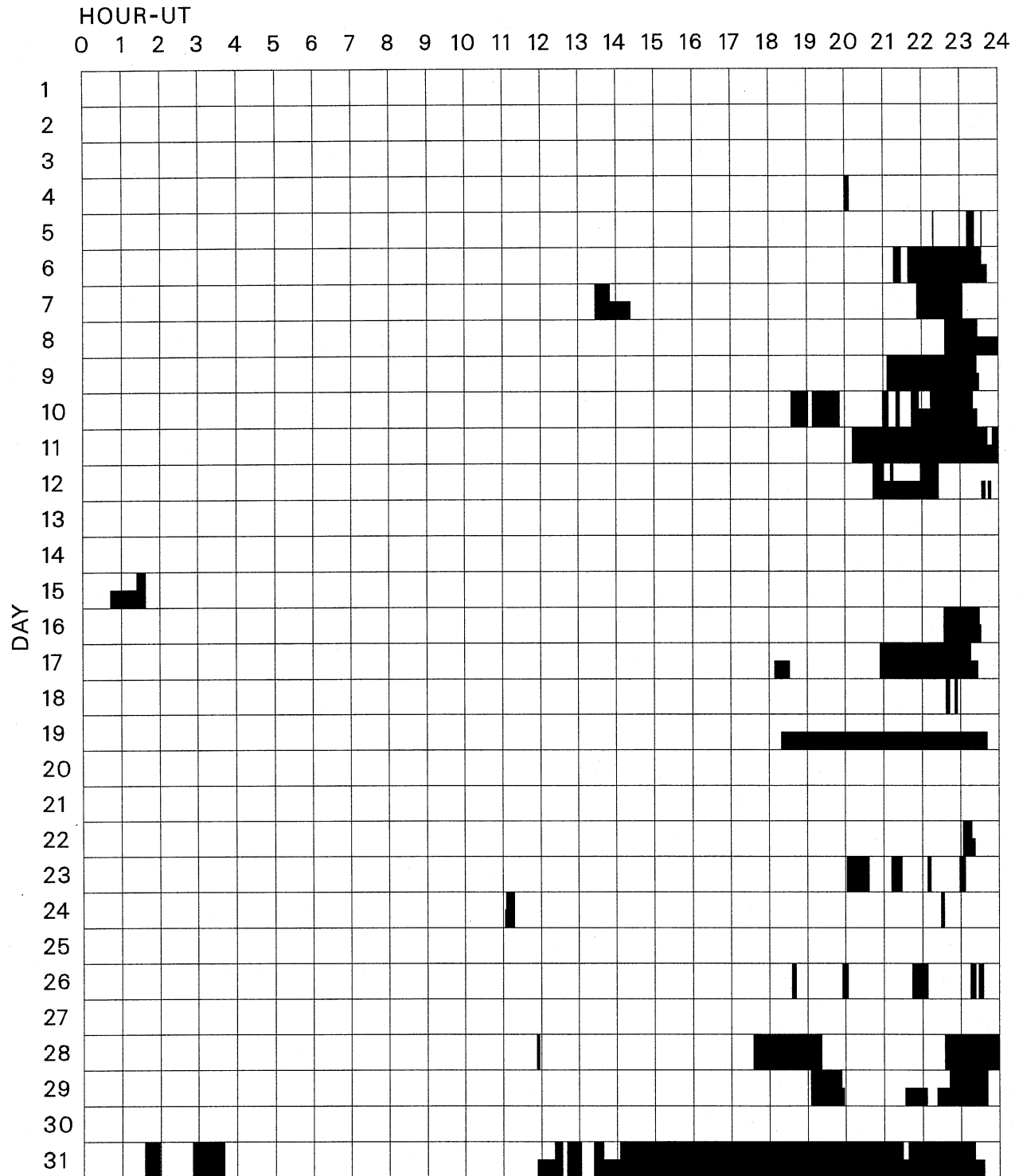
- | | |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian. B = Probably the end of a more important flare. C = Invisible 10 minutes before. D = Brilliant point. E = Two or more brilliant points. F = Several eruptive centers. G = No visible spots in the neighborhood. H = Flare accompanied by high-speed dark filament. I = Active region very extended. J = Distinct variations of plage intensity before or after the flare. K = Several intensity maxima. L = Existing filaments show signs of sudden activity. M = White-light flare. N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II. P = Flare shows Helium D3 in emission. Q = Flare shows Balmer continuum in emission. R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material. S = Brightness follows disappearance of filament in same position. T = Region active all day. U = Two bright branches, parallel or converging. V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase. W = Great increase in area after time of maximum intensity. X = Unusually wide H-alpha line. Y = System of loop-type prominences. Z = Major sunspot umbra covered by flare.</p> |
|---|---|

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

19
Aug 00

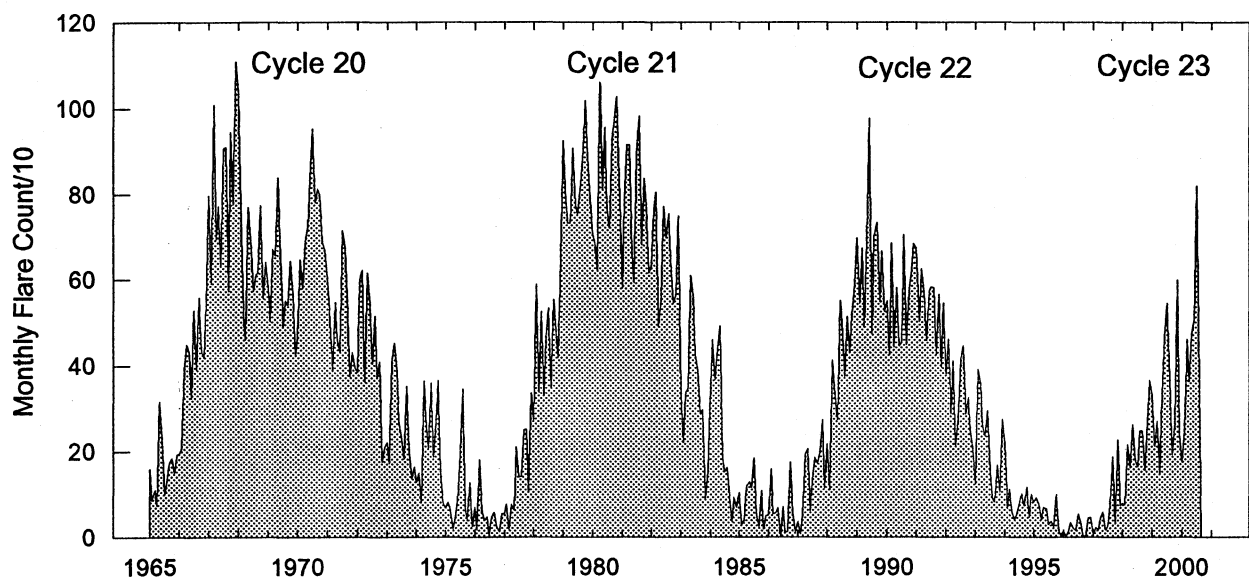
AUGUST 2000



Times of no flare patrol, shown here as shades areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual patrol.

| | | | |
|----------|---------|-------------|----------|
| Holloman | Urumqi | Learmonth | Ramey |
| Mitaka | Kharkov | Kanzelhoehe | San Vito |

Monthly Counts of Grouped Solar Flares Jan 1965 - Aug 2000



| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|------|------|-----|------|------|-----|-----|-----|-----|-----|------|------|------|-------|
| 1965 | 158 | 85 | 110 | 74 | 315 | 231 | 99 | 127 | 173 | 184 | 150 | 193 | 1899 |
| 1966 | 194 | 205 | 390 | 449 | 429 | 323 | 528 | 391 | 558 | 432 | 417 | 543 | 4859 |
| 1967 | 796 | 589 | 1009 | 694 | 771 | 629 | 907 | 911 | 573 | 946 | 775 | 1109 | 9709 |
| 1968 | 1037 | 773 | 519 | 460 | 768 | 697 | 573 | 611 | 616 | 772 | 556 | 640 | 8022 |
| 1969 | 581 | 504 | 669 | 655 | 839 | 694 | 489 | 551 | 540 | 643 | 566 | 422 | 7153 |
| 1970 | 466 | 646 | 578 | 688 | 722 | 836 | 954 | 780 | 811 | 797 | 687 | 667 | 8632 |
| 1971 | 598 | 505 | 387 | 546 | 461 | 430 | 713 | 673 | 518 | 375 | 431 | 394 | 6031 |
| 1972 | 384 | 599 | 621 | 361 | 614 | 541 | 404 | 515 | 371 | 408 | 175 | 210 | 5203 |
| 1973 | 221 | 171 | 410 | 453 | 388 | 270 | 232 | 182 | 353 | 201 | 136 | 163 | 3180 |
| 1974 | 127 | 148 | 79 | 364 | 255 | 204 | 360 | 187 | 270 | 366 | 153 | 81 | 2594 |
| 1975 | 68 | 82 | 69 | 19 | 42 | 85 | 196 | 346 | 68 | 38 | 127 | 25 | 1165 |
| 1976 | 69 | 18 | 180 | 60 | 38 | 48 | 6 | 47 | 57 | 23 | 13 | 55 | 614 |
| 1977 | 54 | 77 | 18 | 76 | 64 | 210 | 140 | 140 | 250 | 252 | 107 | 336 | 1724 |
| 1978 | 274 | 588 | 338 | 526 | 330 | 460 | 533 | 346 | 554 | 499 | 418 | 648 | 5514 |
| 1979 | 926 | 781 | 731 | 731 | 907 | 772 | 750 | 821 | 901 | 1018 | 888 | 786 | 10012 |
| 1980 | 703 | 689 | 621 | 1092 | 811 | 956 | 763 | 720 | 924 | 988 | 1027 | 838 | 10132 |
| 1981 | 578 | 782 | 914 | 915 | 658 | 592 | 893 | 982 | 680 | 836 | 773 | 615 | 9218 |
| 1982 | 631 | 766 | 803 | 490 | 553 | 769 | 696 | 753 | 615 | 544 | 564 | 748 | 7932 |
| 1983 | 332 | 220 | 337 | 346 | 609 | 561 | 427 | 389 | 289 | 298 | 88 | 152 | 4048 |
| 1984 | 353 | 461 | 366 | 440 | 492 | 185 | 151 | 161 | 95 | 36 | 92 | 69 | 2901 |
| 1985 | 104 | 29 | 38 | 119 | 129 | 116 | 185 | 53 | 25 | 108 | 19 | 50 | 975 |
| 1986 | 51 | 158 | 54 | 56 | 68 | 3 | 71 | 12 | 14 | 174 | 56 | 13 | 730 |
| 1987 | 36 | 7 | 52 | 192 | 205 | 61 | 132 | 185 | 172 | 198 | 273 | 114 | 1627 |
| 1988 | 217 | 109 | 413 | 328 | 274 | 551 | 502 | 375 | 513 | 429 | 518 | 587 | 4816 |
| 1989 | 695 | 544 | 672 | 488 | 691 | 977 | 474 | 699 | 733 | 547 | 665 | 526 | 7711 |
| 1990 | 550 | 424 | 684 | 442 | 580 | 445 | 454 | 703 | 449 | 574 | 623 | 682 | 6610 |
| 1991 | 672 | 503 | 625 | 570 | 458 | 574 | 582 | 581 | 425 | 565 | 396 | 544 | 6495 |
| 1992 | 380 | 462 | 287 | 412 | 214 | 271 | 413 | 447 | 287 | 325 | 248 | 206 | 3952 |
| 1993 | 123 | 392 | 357 | 262 | 237 | 296 | 154 | 92 | 82 | 167 | 104 | 275 | 2541 |
| 1994 | 217 | 67 | 111 | 60 | 40 | 56 | 81 | 101 | 72 | 117 | 45 | 99 | 1066 |
| 1995 | 82 | 95 | 77 | 42 | 69 | 66 | 29 | 37 | 23 | 99 | 14 | 6 | 639 |
| 1996 | 14 | 3 | 15 | 34 | 21 | 16 | 54 | 31 | 3 | 0 | 44 | 45 | 280 |
| 1997 | 8 | 22 | 18 | 43 | 59 | 18 | 26 | 75 | 188 | 31 | 228 | 74 | 790 |
| 1998 | 78 | 76 | 216 | 161 | 264 | 177 | 164 | 248 | 249 | 155 | 268 | 367 | 2423 |
| 1999 | 330 | 212 | 271 | 145 | 330 | 466 | 544 | 368 | 192 | 264 | 598 | 243 | 3963 |
| 2000 | 175 | 248 | 462 | 362 | 473 | 505 | 818 | 364 | | | | | 3407 |

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

21
Aug 00

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-----|------|--------|---------|---------------|----------------------------|-------------------|---------------------------|-----------------|-----------------|---------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 01 | 280 | CUBA | 44 NS | 1300.0E | | 360.0D | | 16.0 | | |
| | | CUBA | 44 NS | 1300.0E | | 360.0D | | 8.0 | | |
| | 200 | HIRA | 8 S | 0055.0 | 0056.0 | 2.0 | 30.0 | | WR | |
| | 200 | HIRA | 8 S | 0108.0 | 0109.0 | 3.0 | 30.0 | | 0 | |
| | 2840 | PEKG | 5 S | 0339.0 | 0341.5 | 6.0 | 10.5 | 6.8 | | |
| | 245 | SGMR | 8 S | 2014.0 | 2015.0 | 1.0 | 99.0 | | QL=4 ST=2 TYP=3 | |
| 02 | 200 | HIRA | 8 S | 2015.0 | 2015.0 | 1.0 | 50.0 | | 0 | |
| | 500 | HIRA | 42 SER | 0605.0 | 0741.0 | 119.0 | 100.0 | | 0 | |
| | 204 | IZMI | 7 C | 0721.5 | 0721.6 | 0.3 | 300.0 | | | |
| | 200 | HIRA | 8 S | 0722.0 | 0722.0 | 1.0 | 80.0 | | 0 | |
| | 3000 | IZMI | 22 GRF | 0806.2 | 0810.9 | 38.2 | 14.0 | 5.0 | | |
| 03 | 5730 | IRKU | 4 S/F | 0808.5 | 0813.5 | 7.5 | 6.0 | | U | |
| | 245 | SGMR | 8 S | 2255.0 | 2255.0 | | 220.0 | | QL=4 ST=2 TYP=3 | |
| 04 | 280 | CUBA | 44 NS | 1300.0E | | 445.0D | | 16.0 | | |
| | | CUBA | 44 NS | 1300.0E | | 445.0D | | 7.0 | | |
| | 204 | IZMI | 41 F | 1109.2 | 1109.6 | 0.5 | 133.0 | | | |
| | 204 | IZMI | 41 F | 1132.4 | 1132.5 | 0.4 | 56.0 | | | |
| | 245 | SGMR | 8 S | 1721.0 | 1721.0 | 1.0 | 82.0 | | QL=4 ST=2 TYP=3 | |
| 05 | 204 | IZMI | 7 C | 0945.9 | 0946.2 | 0.6 | 23.0 | | | |
| 06 | 235 | CUBA | 44 NS | 1300.0E | | 360.0D | | 6.0 | | |
| | | CUBA | 44 NS | 1300.0E | | 360.0D | | 16.0 | | |
| | 245 | SGMR | 43 NS | 2156.0 | 2208.0 | 12.0 | 53.0 | | QL=4 ST=2 TYP=1 | |
| | 245 | SGMR | 43 NS | 2156.0 | 2208.0 | 124.0 | 53.0 | | QL=4 ST=1 TYP=1 | |
| | 204 | IZMI | 7 C | 0624.3 | 0624.4 | 0.2 | 14.0 | | | |
| | 204 | IZMI | 42 SER | 0941.1 | 0941.2 | 0.6 | 21.0 | | | |
| | 204 | IZMI | 41 F | 1023.0 | 1023.2 | 0.9 | 21.0 | | | |
| | 245 | SGMR | 4 S/F | 1752.0 | 1753.0 | 3.0 | 110.0 | | QL=4 ST=2 TYP=3 | |
| | 245 | PALE | 4 S/F | 2152.0 | 2156.0 | 5.0 | 80.0 | | QL=4 ST=2 TYP=3 | |
| | 245 | SGMR | 8 S | 2153.0 | 2153.0 | | 52.0 | | QL=4 ST=2 TYP=3 | |
| 06 | 245 | SVTO | 43 NS | 0533.0 | 0533.0 | 1107.0 | 70.0 | | QL=4 ST=1 TYP=1 | |
| | 204 | IZMI | 43 NS | 0600.0 | | 360.0D | | 20.0 | | |
| | 245 | SVTO | 43 NS | 0651.0 | 0816.0 | 231.0 | 170.0 | | QL=4 ST=2 TYP=1 | |
| | 245 | SVTO | 43 NS | 0651.0 | 0651.0 | 1029.0 | 84.0 | | QL=4 ST=1 TYP=1 | |
| | 127 | TORN | 43 NS | 0700.0 | | 520.0D | | 7.0 | | V=2 |
| | 235 | CUBA | 44 NS | 1300.0E | | 480.0D | | 9.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 480.0D | | 19.0 | | |
| | 245 | SGMR | 43 NS | 1342.0 | 1351.0 | 34.0 | 140.0 | | QL=4 ST=2 TYP=1 | |
| | 245 | SGMR | 43 NS | 1342.0 | 1351.0 | 618.0 | 140.0 | | QL=4 ST=1 TYP=1 | |
| | 245 | SGMR | 43 NS | 1342.0 | 1342.0 | 618.0 | 100.0 | | QL=4 ST=1 TYP=1 | |
| | 200 | HIRA | 8 S | 0147.0 | 0147.0 | 1.0 | 170.0 | | WL | |
| | 200 | HIRA | 47 GB | 0203.0 | 0210.0 | 9.0 | 540.0 | | WL | |
| | 2840 | PEKG | 5 S | 0208.0 | 0210.6 | 6.0 | 22.5 | 12.6 | | |
| | 2804 | VORO | 2 S/F | 0209.4 | 0210.5 | 2.1 | 24.0 | | | |
| | 200 | HIRA | 7 C | 0305.0 | 0305.0 | 8.0 | 380.0 | | ML | |
| | 2804 | VORO | 8 S | 0333.4 | 0333.8 | 0.8 | 6.3 | | | |
| | 245 | SVTO | 8 S | 0503.0 | 0503.0 | | 64.0 | | QL=4 ST=2 TYP=3 | |
| | 245 | SVTO | 8 S | 0522.0 | 0523.0 | 1.0 | 99.0 | | QL=4 ST=2 TYP=3 | |
| | 245 | SVTO | 48 C | 0533.0 | 0533.0 | 7.0 | 60.0 | | QL=4 ST=2 TYP=8 | |
| | 245 | SVTO | 49 GB | 0548.0 | 0549.0 | 2.0 | 3800.0 | | QL=4 ST=2 TYP=6 | |
| | 410 | SVTO | 8 S | 0548.0 | 0549.0 | 1.0 | 120.0 | | QL=4 ST=2 TYP=3 | |
| | 245 | SVTO | 49 GB | 0548.0 | 0549.0 | 1092.0 | 3800.0 | | QL=4 ST=1 TYP=6 | |
| | 410 | SVTO | 4 S/F | 0548.0 | 0549.0 | 1092.0 | 120.0 | | QL=4 ST=1 TYP=3 | |
| 245 | SVTO | 48 C | 0634.0 | 0634.0 | 3.0 | 83.0 | | QL=4 ST=2 TYP=8 | | |
| 245 | SVTO | 8 S | 0645.0 | 0645.0 | 1.0 | 61.0 | | QL=4 ST=2 TYP=3 | | |
| 204 | IZMI | 25 R | 0806.0U | | 149.0D | 145.0 | | | | |
| 200 | HIRA | 8 S | 0806.0 | 0808.0 | 3.0 | 460.0 | | ML | | |
| 204 | IZMI | 46 C | 0806.9 | 0807.9 | 2.1 | 1409.0 | | | | |
| 245 | SVTO | 8 S | 0807.0 | 0807.0 | 1.0 | 430.0 | | QL=2 ST=2 TYP=3 | | |
| 127 | TORN | 8 S | 0807.0 | 0808.0 | 1.3 | 1000.0 | 500.0 | | | |
| 33 | UPIC | 42 SER | 0807.0 | 1223.5 | 389.0 | | | | | |
| 127 | TORN | 42 SER | 0850.0 | 0903.4 | 19.0 | 300.0 | 10.0 | | | |
| 127 | TORN | 4 S/F | 0857.1 | 0858.3 | 2.8 | 210.0 | 70.0 | | | |
| 204 | IZMI | 7 C | 0857.7 | 0858.8 | 1.6 | 123.0 | | | | |
| 204 | IZMI | 45 C | 0903.2 | 0903.6 | 0.8 | 429.0 | | | | |

22
Aug 00

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-----|------|-------|--------|------------|----------------------|----------------|------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 06 | 204 | IZMI | 45 C | 0904.6 | 0904.9 | 0.5 | 290.0 | | | |
| | 245 | SGMR | 8 S | 1222.0 | 1222.0 | 1.0 | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1222.0 | 1222.0 | U | 170.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1250.0 | 1250.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1340.0 | 1342.0 | 2.0 | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1350.0 | 1351.0 | 2.0 | 160.0 | | | QL=2 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1351.0 | 1351.0 | U | 90.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1353.0 | 1354.0 | 2.0 | 200.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1354.0 | 1354.0 | 2.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1354.0 | 1354.0 | 1.0 | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1357.0 | 1358.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1542.0 | 1542.0 | 1.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1542.0 | 1542.0 | U | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 49 GB | 1648.0 | 1648.0 | U | 600.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | PALE | 49 GB | 1648.0 | 1648.0 | U | 3000.0 | | | QL=4 ST=2 TYP=6 |
| | 410 | SGMR | 49 GB | 1648.0 | 1648.0 | U | 800.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SGMR | 49 GB | 1648.0 | 1648.0 | U | 3200.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SVTO | 49 GB | 1648.0 | 1648.0 | U | 3300.0 | | | QL=4 ST=2 TYP=6 |
| | 410 | SVTO | 8 S | 1648.0 | 1648.0 | U | 460.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 49 GB | 1648.0 | 1648.0 | 432.0 | 3000.0 | | | QL=4 ST=1 TYP=6 |
| | 245 | SVTO | 49 GB | 1648.0 | 1648.0 | 432.0 | 3300.0 | | | QL=4 ST=1 TYP=6 |
| | 245 | SGMR | 4 S/F | 1658.0 | 1659.0 | 3.0 | 57.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1705.0 | 1706.0 | 3.0 | 71.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1705.0 | 1706.0 | 1.0 | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 1706.0 | 1706.0 | U | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 49 GB | 1709.0 | 1709.0 | 1.0 | 1100.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SGMR | 49 GB | 1709.0 | 1709.0 | 2.0 | 970.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SVTO | 49 GB | 1709.0 | 1709.0 | 1.0 | 990.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | PALE | 8 S | 1932.0 | 1932.0 | 1.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1932.0 | 1932.0 | 1.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 2101.0 | 2102.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SGMR | 8 S | 2101.0 | 2102.0 | 1.0 | 51.0 | | | QL=4 ST=2 TYP=3 | |
| 200 | HIRA | 7 C | 2122.0 | 2133.0 | 16.0 | 120.0 | | | SL | |
| 245 | SGMR | 8 S | 2125.0 | 2126.0 | 1.0 | 58.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 2130.0 | 2131.0 | 1.0 | 53.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | PALE | 8 S | 2132.0 | 2132.0 | 2.0 | 110.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | PALE | 8 S | 2132.0 | 2132.0 | 1.0 | 190.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 4 S/F | 2132.0 | 2133.0 | 3.0 | 150.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SGMR | 8 S | 2132.0 | 2132.0 | 2.0 | 120.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 2136.0 | 2137.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 | |
| 200 | HIRA | 8 S | 2317.0 | 2318.0 | 2.0 | 80.0 | | | 0 | |
| 07 | 245 | SGMR | 43 NS | 1033.0 | 1034.0 | 2.0 | 67.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SVTO | 43 NS | 1033.0 | 1033.0 | 58.0 | 180.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 NS | 1033.0 | 1034.0 | 807.0 | 67.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 NS | 1033.0 | 0000.0 | 807.0 | 180.0 | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 NS | 1200.0E | 1414.3 | 180.0D | 170.0 | 14.0 | | V=2 |
| | 280 | CUBA | 44 NS | 1300.0E | | 515.0D | | 32.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 515.0D | | 21.0 | | |
| | 245 | SGMR | 43 NS | 1750.0 | 1845.0 | 316.0 | 150.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | PALE | 43 NS | 1750.0 | 1750.0 | 370.0 | 69.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1750.0 | 1826.0 | 370.0 | 79.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | PALE | 43 NS | 1750.0 | 1750.0 | 520.0 | 69.0 | | | QL=4 ST=2 TYP=1 |
| | 200 | HIRA | 4 S/F | 0139.0 | 0142.0 | 4.0 | 50.0 | | | 0 |
| | 500 | HIRA | 8 S | 0400.0 | 0400.0 | 1.0 | 120.0 | | | 0 |
| | 204 | IZMI | 42 SER | 0620.5 | 0628.2 | 7.8 | 43.0 | | | |
| | 204 | IZMI | 25 R | 0703.0 | | 77.0U | | | 110.0 | |
| | 200 | HIRA | 8 S | 0735.0 | 0736.0 | 2.0 | 70.0 | | | SL |
| | 204 | IZMI | 46 C | 0735.5 | 0735.7 | 1.2 | 311.0 | | | |
| | 245 | SVTO | 8 S | 0736.0 | 0736.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0747.0 | 0748.0 | 1.0 | 50.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 4 S/F | 0851.0 | 0852.0 | 5.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0902.9 | 0905.3 | 4.3 | 22.0 | | | |
| | 245 | SVTO | 8 S | 0912.0 | 0912.0 | 1.0 | 380.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 46 C | 0912.0 | 0912.6 | 1.2 | 163.0 | | | |
| | 204 | IZMI | 25 R | 0942.0U | | 138.0D | | | 80.0 | |
| 245 | SVTO | 8 S | 1012.0 | 1012.0 | U | 78.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SVTO | 4 S/F | 1012.0 | 1012.0 | 828.0 | 78.0 | | | QL=4 ST=1 TYP=3 | |
| 245 | SVTO | 8 S | 1018.0 | 1018.0 | 1.0 | 130.0 | | | QL=4 ST=2 TYP=3 | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

23
Aug 00

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-----|------|-------|--------|------------|----------------------|----------------|------------------------|-------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 07 | 204 | IZMI | 45 C | 1023.3 | 1023.4 | 0.2 | 244.0 | | | |
| | 204 | IZMI | 42 SER | 1045.4 | 1046.5 | 2.5 | 226.0 | | | |
| | 245 | SVTO | 8 S | 1344.0 | 1344.0 | U | 52.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1430.0 | 1431.0 | 1.0 | 76.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1442.0 | 1442.0 | U | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1645.0 | 1646.0 | 1.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1646.0 | 1647.0 | 1.0 | 81.0 | | | QL=2 ST=2 TYP=3 |
| | 235 | CUBA | 24 R | 1741.0 | 1915.0 | 234.0 | 10.0 | | | |
| | 280 | CUBA | 24 R | 1741.0 | 1915.0 | 234.0 | 21.0 | | | |
| 410 | PALE | 8 S | 1946.0 | 1946.0 | 1.0 | 100.0 | | | QL=4 ST=2 TYP=3 | |
| 08 | 204 | IZMI | 43 NS | 0600.0 | | 360.0D | | 30.0 | | |
| | 127 | TORN | 44 NS | 0840.0E | | 420.0D | | 40.0 | | V=2 |
| | 245 | SVTO | 43 NS | 1005.0 | 1005.0 | 195.0 | 160.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 NS | 1057.0 | 1159.0 | 143.0 | 140.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 NS | 1057.0 | 1058.0 | 783.0 | 120.0 | | | QL=4 ST=1 TYP=1 |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 16.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 23.0 | | |
| | 245 | PALE | 43 NS | 2122.0 | 2129.0 | 158.0 | 82.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | PALE | 43 NS | 2122.0 | 0310.0 | 435.0 | 310.0 | | | QL=4 ST=2 TYP=1 |
| | 2804 | VORO | 46 C | 0211.2 | 0211.6 | 2.0 | 9.0 | | | |
| | 2804 | VORO | 40 F | 0345.0 | 0347.0 | 3.0 | 11.1 | | | |
| | 245 | SVTO | 48 C | 0606.0 | 0620.0 | 16.0 | 280.0 | | | QL=2 ST=2 TYP=8 |
| | 245 | SVTO | 48 C | 0609.0 | 0620.0 | 13.0 | 280.0 | | | QL=2 ST=2 TYP=8 |
| | 245 | SVTO | 8 S | 0610.0 | 0610.0 | 1.0 | 85.0 | | | QL=2 ST=2 TYP=3 |
| | 410 | SVTO | 4 S/F | 0613.0 | 0613.0 | 9.0 | 25.0 | | | QL=4 ST=2 TYP=3 |
| | 500 | HIRA | 8 S | 0620.0 | 0621.0 | 1.0 | 40.0 | | | ML |
| | 410 | SVTO | 8 S | 0620.0 | 0620.0 | 1.0 | 25.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 41 F | 0620.3 | 0620.7 | 0.9 | 94.0 | | | |
| | 204 | IZMI | 7 C | 0839.9 | 0840.0 | 2.0 | 51.0 | | | |
| | 204 | IZMI | 25 R | 1008.0 | | 112.0D | | 160.0 | | |
| | 33 | UPIC | 46 C | 1016.0 | 1017.0 | 2.0 | | | | |
| | 3000 | IZMI | 45 C | 1108.0 | 1113.9 | 18.7 | 32.0 | 12.0 | | |
| | 410 | SVTO | 4 S/F | 1227.0 | 1230.0 | 3.0 | 58.0 | | | QL=4 ST=2 TYP=3 |
| | 33 | UPIC | 46 C | 1227.0 | 1231.0 | 5.0 | | | | |
| | 245 | SVTO | 4 S/F | 1229.0 | 1230.0 | 6.0 | 78.0 | | | QL=4 ST=2 TYP=3 |
| | 6700 | CUBA | 20 GRF | 1241.0 | 1241.0 | 240.0 | 8.0 | 4.0 | | 00L |
| | 410 | SGMR | 8 S | 1638.0 | 1638.0 | U | 63.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 2046.0 | 2046.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 2058.0 | 2058.0 | U | 93.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 4 S/F | 2112.0 | 2117.0 | 6.0 | 190.0 | | | QL=4 ST=2 TYP=3 |
| 410 | PALE | 4 S/F | 2112.0 | 2121.0 | 10.0 | 100.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 2116.0 | 2116.0 | 1.0 | 170.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | PALE | 8 S | 2121.0 | 2121.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SGMR | 8 S | 2121.0 | 2121.0 | 1.0 | 95.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | PALE | 4 S/F | 2121.0 | 2121.0 | 159.0 | 120.0 | | | QL=4 ST=1 TYP=3 | |
| 410 | SGMR | 8 S | 2133.0 | 2133.0 | 1.0 | 59.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 2140.0 | 2141.0 | 2.0 | 85.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SGMR | 8 S | 2141.0 | 2141.0 | 1.0 | 78.0 | | | QL=4 ST=2 TYP=3 | |
| 09 | 410 | LEAR | 43 NS | 0533.0 | 0538.0 | 230.0 | 61.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | LEAR | 43 NS | 0533.0 | 0538.0 | 1107.0 | 61.0 | | | QL=4 ST=1 TYP=1 |
| | 410 | LEAR | 43 NS | 0533.0 | 0533.0 | 1107.0 | 53.0 | | | QL=4 ST=1 TYP=1 |
| | 204 | IZMI | 44 NS | 0600.0E | | 360.0D | | 30.0 | | |
| | 245 | LEAR | 43 NS | 0601.0 | 0602.0 | 202.0 | 53.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | LEAR | 43 NS | 0601.0 | 0602.0 | 1079.0 | 53.0 | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 NS | 0620.0E | | 560.0D | | 40.0 | | V=2 |
| | 245 | SVTO | 43 NS | 0632.0 | 0656.0 | 45.0 | 54.0 | | | QL=2 ST=2 TYP=1 |
| | 245 | SVTO | 43 NS | 0632.0 | 0632.0 | 1048.0 | 55.0 | | | QL=2 ST=1 TYP=1 |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 119.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 46.0 | | |
| | 245 | SGMR | 43 NS | 1503.0 | 1647.0 | 311.0 | 1300.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 NS | 1503.0 | 1623.0 | 537.0 | 930.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1503.0 | 1510.0 | 537.0 | 180.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1503.0 | 1529.0 | 537.0 | 370.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1503.0 | 1647.0 | 537.0 | 1300.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 NS | 1509.0 | 1510.0 | 531.0 | 150.0 | | | QL=2 ST=1 TYP=1 |
| 410 | SGMR | 43 NS | 1532.0 | 1643.0 | 276.0 | 8500.0 | | | QL=4 ST=2 TYP=1 | |
| 410 | SGMR | 43 NS | 1532.0 | 1548.0 | 508.0 | 130.0 | | | QL=4 ST=1 TYP=1 | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks | |
|------|------|--------|--------|------------|----------------------|----------------|------------------------|------|-----|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | | |
| 09 | 410 | SGMR | 43 NS | 1532.0 | 1643.0 | 508.0 | 8500.0 | | | QL=4 ST=1 TYP=1 | |
| | 410 | SGMR | 43 NS | 1532.0 | 1608.0 | 508.0 | 1600.0 | | | QL=4 ST=1 TYP=1 | |
| | 410 | SGMR | 43 NS | 1532.0 | 1637.0 | 508.0 | 5200.0 | | | QL=4 ST=1 TYP=1 | |
| | 410 | SGMR | 43 NS | 1532.0 | 1623.0 | 508.0 | 2400.0 | | | QL=4 ST=1 TYP=1 | |
| | 410 | SVTO | 43 NS | 1534.0 | 1621.0 | 506.0 | 2200.0 | | | QL=2 ST=1 TYP=1 | |
| | 410 | SVTO | 43 NS | 1534.0 | 1638.0 | 506.0 | 8400.0 | | | QL=2 ST=1 TYP=1 | |
| | 410 | SVTO | 43 NS | 1534.0 | 1536.0 | 506.0 | 50.0 | | | QL=2 ST=1 TYP=1 | |
| | 610 | SGMR | 43 NS | 1539.0 | 1618.0 | 172.0 | 620.0 | | | QL=4 ST=2 TYP=1 | |
| | 610 | SGMR | 43 NS | 1539.0 | 1550.0 | 501.0 | 78.0 | | | QL=4 ST=1 TYP=1 | |
| | 610 | SGMR | 43 NS | 1539.0 | 1618.0 | 501.0 | 620.0 | | | QL=4 ST=1 TYP=1 | |
| | 610 | SGMR | 43 NS | 1539.0 | 1609.0 | 501.0 | 220.0 | | | QL=4 ST=1 TYP=1 | |
| | 610 | SVTO | 43 NS | 1545.0 | 1553.0 | 495.0 | 67.0 | | | QL=2 ST=1 TYP=1 | |
| | 1415 | SGMR | 43 NS | 1552.0 | 1654.0 | 71.0 | 220.0 | | | QL=4 ST=2 TYP=1 | |
| | 1415 | SGMR | 43 NS | 1552.0 | 1618.0 | 488.0 | 93.0 | | | QL=4 ST=1 TYP=1 | |
| | 1415 | SGMR | 43 NS | 1552.0 | 1654.0 | 488.0 | 220.0 | | | QL=4 ST=1 TYP=1 | |
| | 1415 | SVTO | 43 NS | 1631.0 | 1631.0 | 449.0 | 130.0 | | | QL=2 ST=1 TYP=1 | |
| | 245 | PALE | 43 NS | 1746.0 | 1746.0 | 239.0 | 120.0 | | | QL=4 ST=2 TYP=1 | |
| | 410 | PALE | 43 NS | 1746.0 | 1746.0 | 239.0 | 160.0 | | | QL=4 ST=2 TYP=1 | |
| | 245 | PALE | 43 NS | 1746.0 | 1746.0 | 374.0 | 120.0 | | | QL=4 ST=1 TYP=1 | |
| | 410 | PALE | 43 NS | 1746.0 | 1746.0 | 374.0 | 160.0 | | | QL=4 ST=1 TYP=1 | |
| | 610 | PALE | 43 NS | 1752.0 | 1752.0 | 39.0 | 70.0 | | | QL=4 ST=2 TYP=1 | |
| | 610 | PALE | 43 NS | 1752.0 | 1752.0 | 368.0 | 70.0 | | | QL=4 ST=1 TYP=1 | |
| | 235 | CUBA | 6 S | 1315.7 | 1316.3 | 1.3 | 181.0 | | | | |
| | 280 | CUBA | 6 S | 1315.7 | 1316.3 | 1.3 | 103.0 | | | | |
| | 245 | SGMR | 8 S | 1316.0 | 1316.0 | | 250.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1316.0 | 1316.0 | | 250.0 | | | | QL=4 ST=2 TYP=3 |
| | 280 | CUBA | 49 GB | 1455.0 | 1635.0 | 230.0 | 1667.0 | | | | |
| | 235 | CUBA | 49 GB | 1455.0 | 1623.6 | 230.0 | 376.0 | | | | |
| | 245 | SGMR | 48 C | 1456.0 | 1459.0 | 4.0 | 1200.0 | | | | QL=4 ST=2 TYP=8 |
| | 245 | SVTO | 49 GB | 1456.0 | 1457.0 | 1.0 | 620.0 | | | | QL=4 ST=3 TYP=6 |
| | 245 | SVTO | 49 GB | 1456.0 | 1457.0 | 1.0 | 620.0 | | | | QL=4 ST=2 TYP=6 |
| | 245 | SVTO | 49 GB | 1459.0 | 1459.0 | 1.0 | 830.0 | | | | QL=4 ST=4 TYP=6 |
| | 245 | SVTO | 49 GB | 1459.0 | 1459.0 | 1.0 | 830.0 | | | | QL=4 ST=3 TYP=6 |
| | 245 | SVTO | 49 GB | 1459.0 | 1459.0 | 1.0 | 830.0 | | | | QL=4 ST=2 TYP=6 |
| | 410 | SGMR | 45 C | 1605.0 | 1610.0 | 12.0 | | | | | QL=4 ST=2 TYP=8 |
| | 410 | SGMR | 45 C | 1605.0 | 1610.0 | 475.0 | | | | | QL=4 ST=1 TYP=8 |
| | 245 | SGMR | 48 C | 1606.0 | 1613.0 | 11.0 | 580.0 | | | | QL=4 ST=2 TYP=8 |
| | 245 | SGMR | 49 GB | 1606.0 | 1610.0 | 474.0 | 530.0 | | | | QL=4 ST=1 TYP=6 |
| | 2695 | SGMR | 8 S | 1609.0 | 1610.0 | 1.0 | 27.0 | | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 S | 1609.0 | 1610.0 | 1.0 | 72.0 | | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 8 S | 1609.0 | 1610.0 | 2.0 | 56.0 | | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 S/F | 1609.0 | 1610.0 | 471.0 | 72.0 | | | | QL=4 ST=1 TYP=3 |
| | 610 | SGMR | 8 S | 1617.0 | 1617.0 | | 320.0 | | | | QL=4 ST=2 TYP=3 |
| 1415 | SVTO | 8 S | 1621.0 | 1621.0 | | 64.0 | | | | QL=4 ST=2 TYP=3 | |
| 610 | PALE | 4 S/F | 1632.0 | 1640.0 | 8.0 | 170.0 | | | | QL=4 ST=2 TYP=3 | |
| 410 | PALE | 49 GB | 1632.0 | 1640.0 | 8.0 | 5200.0 | | | | QL=4 ST=2 TYP=6 | |
| 245 | PALE | 4 S/F | 1632.0 | 1641.0 | 10.0 | 1300.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | PALE | 4 S/F | 1632.0 | 1640.0 | 10.0 | 170.0 | | | | QL=4 ST=2 TYP=3 | |
| 2695 | PALE | 4 S/F | 1632.0 | 1642.0 | 10.0 | 170.0 | | | | QL=4 ST=2 TYP=3 | |
| 245 | PALE | 49 GB | 1632.0 | 1647.0 | 73.0 | 1300.0 | | | | QL=4 ST=2 TYP=6 | |
| 410 | PALE | 49 GB | 1632.0 | 1643.0 | 73.0 | 5200.0 | | | | QL=4 ST=2 TYP=6 | |
| 1415 | PALE | 4 S/F | 1632.0 | 1640.0 | 448.0 | 1.0 | | | | QL=4 ST=1 TYP=3 | |
| 410 | PALE | 49 GB | 1632.0 | 1640.0 | 448.0 | 1.0 | | | | QL=4 ST=1 TYP=6 | |
| 245 | PALE | 4 S/F | 1632.0 | 1641.0 | 448.0 | 1.0 | | | | QL=4 ST=1 TYP=3 | |
| 610 | PALE | 4 S/F | 1632.0 | 1640.0 | 448.0 | 1.0 | | | | QL=4 ST=1 TYP=3 | |
| 4995 | PALE | 4 S/F | 1634.0 | 1641.0 | 8.0 | 250.0 | | | | QL=4 ST=2 TYP=3 | |
| 610 | PALE | 4 S/F | 1634.0 | 1636.0 | 71.0 | 67.0 | | | | QL=4 ST=2 TYP=3 | |
| 4995 | PALE | 4 S/F | 1641.0 | 1641.0 | 64.0 | 27.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | PALE | 48 C | 1642.0 | 1652.0 | 19.0 | 240.0 | | | | QL=4 ST=2 TYP=8 | |
| 6700 | CUBA | 23 GRF | 2053.0 | 2107.0 | 67.0 | 13.0 | 6.0 | | | 00L | |
| 245 | SGMR | 4 S/F | 2102.0 | 2108.0 | 8.0 | 84.0 | | | | QL=4 ST=2 TYP=3 | |
| 10 | 204 | IZMI | 44 NS | 0600.0E | | 360.0D | | 10.0 | | | |
| | 127 | TORN | 44 NS | 1230.0E | | 270.0D | | 6.0 | | V=1, DISTURBED | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 18.0 | | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 8.0 | | | |
| | 245 | LEAR | 8 S | 0046.0 | 0047.0 | 1.0 | 72.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 49 GB | 0046.0 | 0047.0 | 2.0 | 690.0 | | | | QL=4 ST=2 TYP=6 |
| | 500 | HIRA | 8 S | 0343.0 | 0344.0 | 1.0 | 90.0 | | | 0 | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

25
Aug 00

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|------|------|------|--------|---------------|----------------------------|-------------------|---------------------------|-------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 10 | 2804 | VORO | 3 S | 0350.0 | 0351.8 | 5.0 | 5.4 | | | |
| | 245 | LEAR | 8 S | 0832.0 | 0832.0 | 1.0 | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0832.0 | 0832.0 | 1.0 | 180.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 45 C | 0832.6 | 0832.8 | 0.4 | 280.0 | 9.0 | | |
| | 200 | HIRA | 8 S | 0833.0 | 0833.0 | 1.0 | 70.0 | | | 0 |
| | 245 | SGMR | 8 S | 1551.0 | 1551.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1551.0 | 1551.0 | 1.0 | 84.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 8 S | 2223.0 | 2223.0 | 1.0 | 40.0 | | | WR |
| | 200 | HIRA | 8 S | 2313.0 | 2313.0 | 1.0 | 60.0 | | | 0 |
| 11 | 410 | LEAR | 43 NS | 0138.0 | 0138.0 | 339.0 | 140.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | LEAR | 43 NS | 0138.0 | 0138.0 | 1342.0 | 140.0 | | | QL=4 ST=1 TYP=1 |
| | 410 | SVTO | 43 NS | 0540.0 | 0540.0 | 72.0 | 50.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | SVTO | 43 NS | 0540.0 | 0000.0 | 1100.0 | | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 NS | 1250.0E | | 130.0D | | 5.0 | | V=2 |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 8.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 15.0 | | |
| | 245 | LEAR | 8 S | 0626.0 | 0626.0 | 1.0 | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0626.0 | 0626.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 7 C | 0631.0 | 0640.0 | 12.0 | 50.0 | | | WL |
| | 204 | IZMI | 42 SER | 0631.1 | 0639.5 | 12.9 | 61.0 | | | |
| | 204 | IZMI | 46 C | 0639.7 | 0640.2 | 1.0 | 164.0 | | | |
| | 410 | SVTO | 8 S | 0641.0 | 0641.0 | U | 78.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0917.0 | 0917.0 | U | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0920.0 | 0921.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0939.0 | 0939.0 | U | 82.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 4 S/F | 1054.0 | 1056.0 | 3.0 | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 127 | TORN | 4 S/F | 1301.2 | 1301.7 | 0.9 | 40.0 | 10.0 | | |
| | 127 | TORN | 4 S/F | 1335.0 | 1335.4 | 0.9 | 100.0 | 30.0 | | |
| | 9500 | CUBA | 1 S | 1339.0 | 1339.0 | 0.1 | 12.0 | 6.0 | | |
| | 6700 | CUBA | 1 S | 1353.0 | 1353.5 | 1.8 | 27.0 | 13.0 | | |
| | 245 | SGMR | 8 S | 1404.0 | 1405.0 | 1.0 | 100.0 | | | 8L |
| | 245 | SVTO | 8 S | 1405.0 | 1405.0 | U | 78.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 21 GRF | 1522.0 | 1545.0 | 70.0U | 11.0 | | | |
| | 6700 | CUBA | 1 S | 1534.0 | 1534.9 | 2.5 | 6.0 | 3.0 | | |
| | 410 | SGMR | 8 S | 1800.0 | 1800.0 | 1.0 | 62.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 1819.0 | 1821.0 | 2.0 | 97.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SGMR | 8 S | 1820.0 | 1820.0 | 1.0 | 86.0 | | | QL=4 ST=2 TYP=3 | |
| 2800 | PENT | 1 S | 2222.0 | 2223.0 | 2.0 | 8.0 | | | | |
| 12 | 410 | LEAR | 43 NS | 0434.0 | 0442.0 | 124.0 | 200.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | LEAR | 43 NS | 0434.0 | 0442.0 | 1166.0 | 200.0 | | | QL=4 ST=1 TYP=1 |
| | 204 | IZMI | 43 NS | 0600.0 | | 360.0D | | 1.0 | | |
| | 410 | SVTO | 43 NS | 0615.0 | 0650.0 | 35.0 | 61.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | SVTO | 43 NS | 0615.0 | 0000.0 | 1065.0 | | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 43 NS | 0616.0 | 0618.0 | 2.0 | 60.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SVTO | 43 NS | 0616.0 | 0000.0 | 1064.0 | | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 43 NS | 0730.0 | | 450.0D | | 20.0D | | V=1 |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 9.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 18.0 | | |
| | 245 | SGMR | 43 NS | 1406.0 | 1541.0 | 124.0 | 620.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | SGMR | 43 NS | 1406.0 | 1408.0 | 594.0 | 210.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1406.0 | 1541.0 | 594.0 | 620.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SGMR | 43 NS | 1406.0 | 1523.0 | 594.0 | 240.0 | | | QL=4 ST=1 TYP=1 |
| | 610 | SGMR | 43 NS | 1412.0 | 1439.0 | 63.0 | 210.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | SGMR | 43 NS | 1412.0 | 1524.0 | 108.0 | 480.0 | | | QL=4 ST=2 TYP=1 |
| | 410 | SGMR | 43 NS | 1412.0 | 1446.0 | 588.0 | 140.0 | | | QL=4 ST=1 TYP=1 |
| | 410 | SGMR | 43 NS | 1412.0 | 1426.0 | 588.0 | 69.0 | | | QL=4 ST=1 TYP=1 |
| | 410 | SGMR | 43 NS | 1412.0 | 1524.0 | 588.0 | 480.0 | | | QL=4 ST=1 TYP=1 |
| | 610 | SGMR | 43 NS | 1412.0 | 1431.0 | 588.0 | 130.0 | | | QL=4 ST=1 TYP=1 |
| | 610 | SGMR | 43 NS | 1412.0 | 1439.0 | 588.0 | 210.0 | | | QL=4 ST=1 TYP=1 |
| | 410 | SVTO | 43 NS | 1427.0 | 1523.0 | 76.0 | 540.0 | | | QL=2 ST=2 TYP=1 |
| | 410 | SVTO | 43 NS | 1427.0 | 1441.0 | 573.0 | 120.0 | | | QL=4 ST=1 TYP=1 |
| | 610 | SVTO | 43 NS | 1429.0 | 1439.0 | 44.0 | 260.0 | | | QL=2 ST=2 TYP=1 |
| | 610 | SVTO | 43 NS | 1429.0 | 1439.0 | 571.0 | 260.0 | | | QL=2 ST=1 TYP=1 |
| | 245 | SVTO | 43 NS | 1440.0 | 1541.0 | 90.0 | 590.0 | | | QL=2 ST=2 TYP=1 |
| | 245 | SVTO | 43 NS | 1440.0 | 1443.0 | 560.0 | 90.0 | | | QL=2 ST=1 TYP=1 |
| | 200 | HIRA | 4 S/F | 0137.0 | 0138.0 | 2.0 | 60.0 | | | 0 |
| | 500 | HIRA | 7 C | 0137.0 | 0137.0 | 4.0 | 50.0 | | | WL |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 ⁻²² W/m ² Hz) | Flux Density Mean | Int | Remarks | |
|------|------|--------|--------|------------|----------------------|----------------|---|-------------------|------|-----------------|-----------------|
| 12 | 410 | LEAR | 4 S/F | 0137.0 | 0137.0 | 3.0 | 99.0 | | | QL=4 ST=2 TYP=3 | |
| | 245 | LEAR | 8 S | 0137.0 | 0137.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 | |
| | 245 | PALE | 8 S | 0137.0 | 0137.0 | 1.0 | 100.0 | | | QL=4 ST=2 TYP=3 | |
| | 410 | PALE | 8 S | 0137.0 | 0137.0 | 2.0 | 63.0 | | | QL=4 ST=2 TYP=3 | |
| | 245 | LEAR | 4 S/F | 0137.0 | 0137.0 | 1343.0 | 55.0 | | | QL=4 ST=1 TYP=3 | |
| | 410 | LEAR | 4 S/F | 0137.0 | 0137.0 | 1343.0 | 99.0 | | | QL=4 ST=1 TYP=3 | |
| | 5730 | IRKU | 4 S/F | 0137.0 | 0138.5 | 8.0 | 10.0 | | U | | |
| | 4995 | LEAR | 4 S/F | 0155.0 | 0201.0 | 8.0 | 31.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 4 S/F | 0156.0 | 0201.0 | 7.0 | 45.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 4 S/F | 0156.0 | 0201.0 | 6.0 | 140.0 | | | | QL=4 ST=2 TYP=3 |
| | 2840 | PEKG | 5 S | 0159.0 | 0202.1 | 5.0 | 25.3 | | 12.8 | | |
| | 2804 | VORO | 46 C | 0200.6 | 0201.6 | 2.1 | 24.0 | | | | |
| | 200 | HIRA | 7 C | 0201.0 | 0202.0 | 4.0 | 100.0 | | | | 0 |
| | 2695 | LEAR | 8 S | 0201.0 | 0201.0 | 1.0 | 21.0 | | | | QL=4 ST=2 TYP=3 |
| | 4995 | PALE | 8 S | 0201.0 | 0201.0 | 1.0 | 30.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 S | 0201.0 | 0201.0 | 1.0 | 69.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 0201.0 | 0201.0 | 1.0 | 190.0 | | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 8 S | 0313.0 | 0314.0 | 1.0 | 40.0 | | | | 0 |
| | 245 | LEAR | 8 S | 0313.0 | 0313.0 | 1.0 | 73.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 0313.0 | 0313.0 | 1.0 | 110.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 S | 0431.0 | 0431.0 | U | 75.0 | | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0605.6 | 0608.5 | 32.5 | 39.0 | | | | |
| | 410 | SVTO | 8 S | 0608.0 | 0608.0 | U | 67.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 4 S/F | 0614.0 | 0618.0 | 5.0 | 58.0 | | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 7 C | 0808.9 | 0809.1 | 0.9 | 58.0 | | | | |
| | 610 | SVTO | 8 S | 0818.0 | 0818.0 | 1.0 | 95.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0829.0 | 0829.0 | U | 61.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0829.0 | 0829.0 | U | 60.0 | | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 7 C | 0945.4 | 1004.0U | 21.0 | 40.0U | | | | |
| | 4995 | SVTO | 4 S/F | 0947.0 | 0949.0 | 8.0 | 64.0 | | | | QL=4 ST=2 TYP=3 |
| | 610 | SVTO | 4 S/F | 0947.0 | 0951.0 | 8.0 | 50.0 | | | | QL=2 ST=2 TYP=3 |
| | 2840 | PEKG | 3 S | 0947.0 | 1002.7 | 29.0 | 56.1 | | 28.3 | | |
| | 3000 | IZMI | 41 F | 0947.5 | 1002.5 | 25.0 | 39.0 | | | | |
| | 8800 | SVTO | 4 S/F | 0948.0 | 0951.0 | 7.0 | 53.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 4 S/F | 0954.0 | 1003.0 | 10.0 | 59.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 0955.0 | 0956.0 | 1.0 | 45.0 | | | | QL=4 ST=2 TYP=3 |
| | 33 | UPIC | 46 C | 1016.0 | 1017.0 | 6.0 | | | | | |
| | 245 | SGMR | 8 S | 1044.0 | 1045.0 | 2.0 | 80.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1044.0 | 1045.0 | 2.0 | 73.0 | | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1119.0 | 1119.0 | 1.0 | 90.0 | | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 7 C | 1119.0 | 1119.5 | 0.8 | 98.0 | | | | |
| | 204 | IZMI | 7 C | 1159.2 | 1159.5 | 0.8 | 76.0 | | 19.0 | | |
| | 410 | SGMR | 8 S | 1227.0 | 1227.0 | 1.0 | 110.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1227.0 | 1229.0 | 2.0 | 110.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1229.0 | 1229.0 | 2.0 | 140.0 | | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 S/F | 1239.0 | 1240.0 | 4.0 | 49.0 | | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 4 S/F | 1240.0 | 1241.0 | 3.0 | 84.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1240.0 | 1242.0 | 2.0 | 53.0 | | | | QL=4 ST=2 TYP=3 |
| | 610 | SVTO | 4 S/F | 1240.0 | 1241.0 | 3.0 | 61.0 | | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1241.0 | 1242.0 | 1.0 | 59.0 | | | | QL=4 ST=2 TYP=3 |
| 410 | SGMR | 8 S | 1242.0 | 1242.0 | 1.0 | 34.0 | | | | QL=4 ST=2 TYP=3 | |
| 6700 | CUBA | 23 GRF | 1329.0 | 1438.0 | 208.0 | 13.0 | | 6.0 | | 00L | |
| 610 | SGMR | 4 S/F | 1330.0 | 1333.0 | 9.0 | 94.0 | | | | QL=4 ST=2 TYP=3 | |
| 610 | SVTO | 4 S/F | 1331.0 | 1335.0 | 6.0 | 57.0 | | | | QL=4 ST=2 TYP=3 | |
| 410 | SVTO | 4 S/F | 1331.0 | 1334.0 | 7.0 | 160.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | SVTO | 4 S/F | 1332.0 | 1337.0 | 5.0 | 26.0 | | | | QL=4 ST=2 TYP=3 | |
| 410 | SGMR | 4 S/F | 1333.0 | 1334.0 | 6.0 | 180.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | SGMR | 4 S/F | 1333.0 | 1333.0 | 6.0 | 44.0 | | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 4 S/F | 1334.0 | 1334.0 | 5.0 | 45.0 | | | | QL=4 ST=2 TYP=3 | |
| 33 | UPIC | 40 F | 1346.0 | 1351.0 | 68.0 | | | | | | |
| 9500 | CUBA | 23 GRF | 1349.0 | 1434.0 | 127.0 | 14.0 | | 7.0 | | | |
| 2800 | PENT | 40 F | 1350.0 | 1435.0 | 95.0 | 19.0 | | | | | |
| 245 | SVTO | 8 S | 1408.0 | 1408.0 | U | 210.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | SVTO | 8 S | 1410.0 | 1411.0 | 1.0 | 51.0 | | | | QL=4 ST=3 TYP=3 | |
| 1415 | SVTO | 8 S | 1410.0 | 1411.0 | 1.0 | 51.0 | | | | QL=4 ST=2 TYP=3 | |
| 245 | SVTO | 8 S | 1410.0 | 1411.0 | 1.0 | 150.0 | | | | QL=4 ST=3 TYP=3 | |
| 245 | SVTO | 8 S | 1410.0 | 1411.0 | 1.0 | 150.0 | | | | QL=4 ST=2 TYP=3 | |
| 1415 | SVTO | 4 S/F | 1414.0 | 1417.0 | 14.0 | 320.0 | | | | QL=4 ST=4 TYP=3 | |
| 1415 | SVTO | 4 S/F | 1414.0 | 1417.0 | 14.0 | 320.0 | | | | QL=4 ST=3 TYP=3 | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

27
Aug 00

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density Peak (10 ⁻²² W/m ² Hz) | Flux Density Mean | Int | Remarks |
|------|------|--------|--------|------------|----------------------|----------------|---|-------------------|-----------------|-----------------|
| 12 | 1415 | SVTO | 4 S/F | 1414.0 | 1417.0 | 14.0 | 320.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SVTO | 4 S/F | 1415.0 | 1416.0 | 13.0 | 56.0 | | | QL=4 ST=4 TYP=3 |
| | 610 | SVTO | 4 S/F | 1415.0 | 1416.0 | 13.0 | 56.0 | | | QL=4 ST=3 TYP=3 |
| | 610 | SVTO | 4 S/F | 1415.0 | 1416.0 | 13.0 | 56.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 S/F | 1416.0 | 1417.0 | 22.0 | 330.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1417.0 | 1417.0 | 1.0 | 85.0 | | | QL=4 ST=3 TYP=3 |
| | 410 | SGMR | 8 S | 1417.0 | 1417.0 | 1.0 | 85.0 | | | QL=4 ST=2 TYP=3 |
| | 280 | CUBA | 48 C | 1418.1 | 1541.2 | 122.7 | 755.0 | | | |
| | 235 | CUBA | 48 C | 1418.1 | 1541.2 | 122.7 | 256.0 | | | |
| | 410 | SVTO | 4 S/F | 1423.0 | 1423.0 | 3.0 | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 4 S/F | 1423.0 | 1423.0 | 3.0 | 59.0 | | | QL=4 ST=3 TYP=3 |
| | 410 | SVTO | 4 S/F | 1423.0 | 1423.0 | 3.0 | 59.0 | | | QL=4 ST=4 TYP=3 |
| | 1415 | SVTO | 4 S/F | 1434.0 | 1436.0 | 7.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1439.0 | 1441.0 | 2.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 8 S | 1439.0 | 1439.0 | 2.0 | 280.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 8 S | 1441.0 | 1441.0 | U | 66.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1520.0 | 1520.0 | 2.0 | 300.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 20 GRF | 1526.0 | 1540.0 | 47.0 | 11.0 | | | |
| 2804 | VORO | 3 S | 2227.0 | 2228.2 | 3.0 | 6.4 | | | | |
| 13 | 127 | TORN | 44 NS | 0950.0E | | 310.0D | | 3.0 | | V=1,DISTURBED |
| | 235 | CUBA | 44 NS | 1300.0E | | 335.0D | | 5.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 20.0 | | |
| | 200 | HIRA | 8 S | 0009.0 | 0010.0 | 1.0 | 90.0 | | | |
| | 245 | LEAR | 8 S | 0009.0 | 0009.0 | U | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 5730 | IRKU | 1 S | 0029.3 | 0029.9 | 2.4 | 6.0 | | U | |
| | 245 | LEAR | 8 S | 0148.0 | 0148.0 | 1.0 | 77.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 0553.0 | 0553.0 | 1.0 | 65.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1033.0 | 1033.0 | U | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1042.0 | 1043.0 | 1.0 | 74.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1045.0 | 1045.0 | 1.0 | 55.0 | | | QL=4 ST=2 TYP=3 |
| | 3000 | IZMI | 20 GRF | 1102.4E | 1103.7 | 10.4D | 11.0 | 4.0 | | |
| | 6700 | CUBA | 22 GRF | 1336.0 | 1434.0 | 68.0 | 10.0 | 5.0 | | 00L |
| | 410 | SVTO | 48 C | 1558.0 | 1558.0 | 6.0 | 60.0 | | | QL=4 ST=2 TYP=8 |
| | 410 | SVTO | 8 S | 1608.0 | 1608.0 | U | 51.0 | | | QL=4 ST=2 TYP=3 |
| 6700 | CUBA | 2 S/F | 2011.0 | 2014.6 | 8.0 | 18.0 | 9.0 | | 9L | |
| 14 | 127 | TORN | 44 NS | 1250.0E | | 130.0D | | 6.0 | | V=1,DISTURBED |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 6.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 14.0 | | |
| | 500 | HIRA | 46 C | 0245.0 | 0248.0 | 9.0 | 50.0 | | | WL |
| | 204 | IZMI | 42 SER | 0711.2 | 0711.9 | 2.0 | 40.0 | | | |
| | 204 | IZMI | 42 SER | 0714.2 | 0714.8 | 2.0 | 41.0 | | | |
| | 204 | IZMI | 25 R | 1009.0U | | 111.0D | | 5.0 | | |
| | 3000 | IZMI | 20 GRF | 1026.9 | 1028.4 | 5.1 | 2.6 | | | |
| | 6700 | CUBA | 21 GRF | 1219.0 | 1219.0 | 127.0 | 11.0 | 5.0 | | 00L |
| | 6700 | CUBA | 2 S/F | 1253.0 | 1254.8 | 3.6 | 9.0 | 4.0 | | 22L |
| 410 | SGMR | 8 S | 1331.0 | 1332.0 | 1.0 | 62.0 | | | QL=4 ST=2 TYP=3 | |
| 15 | 204 | IZMI | 43 NS | 0600.0 | | 360.0D | | 15.0 | | |
| | 127 | TORN | 44 NS | 0620.0E | | 560.0D | | 8.0 | | V=2,DISTURBED |
| | 280 | CUBA | 44 NS | 1400.0E | | 420.0D | | 15.0 | | |
| | 235 | CUBA | 44 NS | 1400.0E | | 420.0D | | 8.0 | | |
| | 200 | HIRA | 8 S | 0011.0 | 0011.0 | 1.0 | 30.0 | | | |
| | 200 | HIRA | 46 C | 0522.0 | 0525.0 | 5.0 | 40.0 | | | |
| | 245 | SVTO | 4 S/F | 0522.0 | 0525.0 | 4.0 | 89.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0524.0 | 0525.0 | 2.0 | 88.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 49 GB | 0922.0 | 0924.0 | 3.0 | 550.0 | | | QL=4 ST=2 TYP=6 |
| | 610 | LEAR | 4 S/F | 0922.0 | 0924.0 | 3.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 49 GB | 0923.0 | 0924.0 | 1.0 | 520.0 | | | QL=4 ST=2 TYP=6 |
| | 410 | SVTO | 8 S | 0923.0 | 0924.0 | 1.0 | 270.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 49 GB | 0923.0 | 0924.0 | 1.0 | 620.0 | | | QL=4 ST=2 TYP=6 |
| | 33 | UPIC | 42 SER | 0923.0 | 0924.0 | 53.0 | | | | |
| | 204 | IZMI | 46 C | 0923.9 | 0924.0 | 1.9 | 12838.0 | | | |
| | 610 | SVTO | 8 S | 0924.0 | 0925.0 | 2.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0933.0 | 0934.0 | 1.0 | 69.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SVTO | 8 S | 0933.0 | 0934.0 | 1.0 | 76.0 | | | QL=4 ST=2 TYP=3 | |
| 204 | IZMI | 42 SER | 0933.9 | 0934.3 | 5.3 | 75.0 | 64.0 | | | |
| 33 | UPIC | 46 C | 1356.0 | 1357.0 | 4.0 | | | | | |

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S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-----|------|-------|--------|------------|----------------------|----------------|------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 15 | 410 | SVTO | 4 S/F | 1416.0 | 1417.0 | 584.0 | 72.0 | | | QL=4 ST=1 TYP=3 |
| | 245 | SGMR | 8 S | 1417.0 | 1417.0 | 1.0 | 37.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1417.0 | 1417.0 | U | 49.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 4 S/F | 1417.0 | 1417.0 | 583.0 | 33.0 | | | QL=4 ST=1 TYP=3 |
| 16 | 204 | IZMI | 44 NS | 0600.0E | | 27.0D | | 5.0 | | |
| | 127 | TORN | 44 NS | 1250.0E | | 150.0D | | 6.0 | | V=0 |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 5.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 32.0 | | |
| | 245 | LEAR | 8 S | 0152.0 | 0152.0 | U | 100.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0203.0 | 0203.0 | 1.0 | 65.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 8 S | 0446.0 | 0447.0 | 2.0 | 120.0 | | | 0 |
| | 204 | IZMI | 42 SER | 1115.3 | 1115.7 | 1.4 | 92.0 | | | |
| | 204 | IZMI | 41 F | 1135.4 | 1135.7 | 0.7 | 24.0 | 20.0 | | |
| | 204 | IZMI | 42 SER | 1140.1 | 1140.7 | 0.8 | 106.0 | | | |
| | 410 | SVTO | 8 S | 1513.0 | 1513.0 | U | 85.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 1 S | 2137.0 | 2146.0 | 16.0 | 9.0 | | | |
| 17 | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 17.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 7.0 | | |
| | 410 | LEAR | 8 S | 0229.0 | 0229.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | PALE | 8 S | 0229.0 | 0229.0 | 1.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 3000 | IZMI | 20 GRF | 0819.9 | 0820.6 | 3.3 | 12.0 | 3.0 | | |
| | 500 | HIRA | 7 C | 0820.0 | 0820.0 | 2.0 | 40.0 | | | 0 |
| | 410 | LEAR | 8 S | 0820.0 | 0820.0 | U | 200.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 0820.0 | 0820.0 | U | 150.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0824.0 | 0824.0 | U | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 4 S/F | 0825.0 | 0827.0 | 3.0 | 68.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 42 SER | 0826.0 | 0827.0 | 12.0 | 30.0 | | | |
| | 204 | IZMI | 42 SER | 0826.4 | 0827.1 | 0.9 | 99.0 | | | |
| | 204 | IZMI | 41 F | 0830.1 | 0830.4 | 0.5 | 79.0 | | | |
| | 33 | UPIC | 46 C | 0831.0 | 0833.0 | 3.5 | | | | |
| | 204 | IZMI | 42 SER | 0831.4 | 0833.6 | 3.2 | 109.0 | | | |
| | 245 | LEAR | 8 S | 0833.0 | 0833.0 | U | 67.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0833.0 | 0833.0 | 1.0 | 72.0 | | | QL=2 ST=3 TYP=3 |
| | 245 | SVTO | 8 S | 0833.0 | 0833.0 | 1.0 | 1.0 | | | QL=2 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0835.3 | 0836.8 | 4.9 | 1149.0 | | | |
| | 2840 | PEKG | 3 S | 0836.0 | 0840.5 | 10.0 | 47.8 | 25.7 | | |
| | 3000 | IZMI | 45 C | 0836.0 | 0840.6 | 15.7 | 56.0 | 10.7 | | |
| | 1415 | SVTO | 8 S | 0840.0 | 0840.0 | U | 29.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 8 S | 0840.0 | 0840.0 | 1.0 | 46.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 8 S | 0840.0 | 0840.0 | 1.0 | 43.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1512.0 | 1513.0 | 1.0 | 76.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1512.0 | 1514.0 | 2.0 | 85.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 41 F | 2031.0 | 2034.0 | 44.0 | 5.0 | | | |
| 200 | HIRA | 8 S | 2217.0 | 2218.0 | 1.0 | 30.0 | | | 0 | |
| 18 | 2840 | PEKG | 3 S | 0414.0 | 0427.9 | 20.0 | 33.4 | 18.2 | | |
| | 245 | SVTO | 49 GB | 0724.0 | 0724.0 | 1.0 | 670.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SVTO | 8 S | 0753.0 | 0753.0 | 2.0 | 180.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0800.9 | 0801.3 | 0.7 | 36.0 | | | |
| | 500 | HIRA | 8 S | 0801.0 | 0801.0 | 1.0 | 30.0 | | | |
| | 204 | IZMI | 41 F | 0806.3 | 0806.4 | 0.4 | 31.0 | | | |
| | 204 | IZMI | 7 C | 0816.4 | 0816.5 | 0.3 | 14.0 | | | |
| | 245 | SVTO | 8 S | 0817.0 | 0817.0 | 1.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0941.0 | 0941.0 | 2.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1323.0 | 1323.0 | U | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1323.0 | 1323.0 | U | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 4 S/F | 1553.0 | 1555.0 | 6.0 | 71.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | SGMR | 4 S/F | 1553.0 | 1555.0 | 3.0 | 330.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | SGMR | 8 S | 1554.0 | 1555.0 | 2.0 | 330.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1554.0 | 1555.0 | 1.0 | 290.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1555.0 | 1555.0 | U | 40.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 29 PBI | 1805.0 | 1809.0 | 18.0 | 11.0 | | | |
| | 410 | SGMR | 8 S | 1809.0 | 1810.0 | 2.0 | 330.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 49 GB | 1809.0 | 1809.0 | 1.0 | 1300.0 | | | QL=4 ST=2 TYP=6 |
| 610 | SGMR | 49 GB | 1809.0 | 1809.0 | 2.0 | 890.0 | | | QL=4 ST=2 TYP=6 | |
| 245 | SGMR | 49 GB | 1809.0 | 1809.0 | 351.0 | 1300.0 | | | QL=4 ST=1 TYP=6 | |
| 610 | SGMR | 49 GB | 1809.0 | 1809.0 | 351.0 | 890.0 | | | QL=4 ST=1 TYP=6 | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

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AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|------|------|--------|--------|------------|----------------------|----------------|------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 18 | 410 | SGMR | 4 S/F | 1809.0 | 1810.0 | 351.0 | 330.0 | | | QL=4 ST=1 TYP=3 |
| | 500 | HIRA | 8 S | 2122.0 | 2122.0 | 1.0 | 400.0 | | | |
| | 245 | LEAR | 8 S | 2343.0 | 2343.0 | 1.0 | 37.0 | | | QL=4 ST=2 TYP=3 |
| 19 | 200 | HIRA | 8 S | 0845.0 | 0845.0 | 1.0 | 60.0 | | | MR |
| | 2800 | PENT | 3 S | 1920.0 | 1923.0 | 6.0 | 11.0 | | | |
| | 610 | PALE | 8 S | 1922.0 | 1922.0 | U | 67.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 8 S | 1922.0 | 1922.0 | 2.0 | 75.0 | | | QL=4 ST=2 TYP=3 |
| 20 | 2840 | PEKG | 5 S | 0855.0 | 0858.2 | 7.0 | 15.0 | 9.2 | | |
| | 3000 | IZMI | 22 GRF | 0857.3U | 0857.9 | 5.1U | 19.0 | | | |
| | 410 | SGMR | 8 S | 1434.0 | 1435.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1434.0 | 1435.0 | 1.0 | 74.0 | | | QL=4 ST=2 TYP=3 |
| 21 | 127 | TORN | 43 NS | 1148.0 | | 192.0 | | 2.0 | | V=1 |
| | 235 | CUBA | 44 NS | 1300.0E | | 360.0D | | 6.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 360.0D | | 15.0 | | |
| | 2695 | SGMR | 8 S | 1222.0 | 1223.0 | 2.0 | 79.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 21 GRF | 1436.0 | 1444.0 | 44.0 | 4.0 | | | |
| | 610 | SGMR | 4 S/F | 1700.0 | 1702.0 | 3.0 | 49.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 4 S/F | 1701.0 | 1702.0 | 3.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1702.0 | 1702.0 | U | 56.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 8 S | 1733.0 | 1734.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 2800 | PENT | 29 PBI | 2125.0 | 2133.0 | 67.0U | 40.0 | | | |
| | 2695 | SGMR | 8 S | 2133.0 | 2134.0 | 1.0 | 38.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SGMR | 8 S | 2133.0 | 2134.0 | 1.0 | 57.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 8 S | 2133.0 | 2134.0 | 2.0 | 170.0 | | | QL=4 ST=2 TYP=3 |
| 22 | 204 | IZMI | 43 NS | 1051.0 | | 44.0 | | 30.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 460.0D | | 6.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 460.0D | | 16.0 | | |
| | 2800 | PENT | 1 S | 0007.0 | 0014.0 | 13.0 | 13.0 | | | |
| | 2840 | PEKG | 5 S | 0012.0 | 0014.7 | 7.0 | 10.9 | 6.8 | | |
| | 2804 | VORO | 46 C | 0013.1 | 0014.8 | 3.6 | 13.0 | | | |
| | 200 | HIRA | 8 S | 0513.0 | 0516.0 | 4.0 | 90.0 | | | WR |
| | 2840 | PEKG | 1 S | 0513.0 | 0515.5 | 5.0 | 8.6 | 5.3 | | |
| | 245 | SVTO | 8 S | 0514.0 | 0515.0 | 1.0 | 81.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0515.0 | 0515.0 | U | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0912.0 | 0914.6 | 3.8 | 106.0 | | | |
| | 245 | LEAR | 8 S | 0914.0 | 0914.0 | 1.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0914.0 | 0914.0 | U | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 33 | UPIC | 46 C | 0914.0 | 0915.0 | 2.0 | | | | |
| | 245 | LEAR | 4 S/F | 0914.0 | 0914.0 | 886.0 | 140.0 | | | QL=4 ST=1 TYP=3 |
| | 204 | IZMI | 46 C | 0939.9 | 0941.2 | 5.4 | 857.0 | | | |
| | 410 | SVTO | 8 S | 0940.0 | 0941.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0940.0 | 0941.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 33 | UPIC | 48 C | 0940.0 | 0941.5 | 6.0 | | | | |
| | 3000 | IZMI | 22 GRF | 0940.5 | 0940.8 | 8.7 | 10.0 | 2.0 | | |
| 245 | LEAR | 8 S | 0941.0 | 0941.0 | U | 100.0 | | | QL=4 ST=2 TYP=3 | |
| 2800 | PENT | 20 GRF | 1804.0 | 1812.0 | 53.0 | 5.0 | | | | |
| 23 | 127 | TORN | 44 NS | 1250.0E | | 90.0D | | 2.0 | | V=1 |
| | 235 | CUBA | 44 NS | 1300.0E | | 460.0D | | 9.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 460.0D | | 18.0 | | |
| | 200 | HIRA | 8 S | 0110.0 | 0112.0 | 2.0 | 30.0 | | | WR |
| | 245 | LEAR | 8 S | 0322.0 | 0322.0 | 1.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0330.0 | 0330.0 | 2.0 | 80.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 41 F | 0629.1 | 0629.7 | 1.4 | 105.0 | | | |
| | 33 | UPIC | 3 S | 1000.0 | 1000.5 | 1.0 | | | | |
| | 33 | UPIC | 3 S | 1055.0 | 1055.5 | 1.0 | | | | |
| | 245 | SVTO | 8 S | 1248.0 | 1248.0 | 1.0 | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1250.0 | 1252.0 | 3.0 | 79.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 4 S/F | 1250.0 | 1252.0 | 3.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 8 S | 1919.0 | 1920.0 | 2.0 | 52.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SGMR | 8 S | 1919.0 | 1920.0 | 2.0 | 52.0 | | | QL=4 ST=3 TYP=3 | |
| 24 | 245 | LEAR | 43 NS | 0027.0 | 0027.0 | 147.0 | 62.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | LEAR | 43 NS | 0027.0 | 0027.0 | 1413.0 | 62.0 | | | QL=4 ST=1 TYP=1 |
| | 204 | IZMI | 43 NS | 0600.0 | | 360.0D | | 5.0 | | |

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S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-------|-------|-------|--------|------------|----------------------|----------------|------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 24 | 127 | TORN | 44 NS | 1250.0E | | 130.0D | | 2.0 | | V=0 |
| | 235 | CUBA | 44 NS | 1300.0E | | 460.0D | | 6.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 460.0D | | 15.0 | | |
| | 204 | IZMI | 25 R | 0600.0E | | 34.0D | | 25.0 | | |
| | 204 | IZMI | 42 SER | 0629.1 | 0629.9 | 1.8 | 127.0 | | | |
| | 245 | LEAR | 8 S | 0732.0 | 0733.0 | 1.0 | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 42 SER | 0846.5 | 0847.5 | 2.5 | 125.0 | | | |
| | 3000 | IZMI | 22 GRF | 0846.6 | 0846.9 | 1.9 | 7.0 | 3.0 | | |
| 25 | 204 | IZMI | 44 NS | 0600.0E | | 360.0D | | 5.0 | | |
| | 127 | TORN | 44 NS | 0620.0E | | 560.0D | | 4.0 | | V=1 |
| | 280 | CUBA | 44 NS | 1300.0E | | 360.0D | | 14.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 360.0D | | 7.0 | | |
| | 245 | LEAR | 8 S | 0021.0 | 0021.0 | U | 32.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0309.0 | 0309.0 | U | 82.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0320.0 | 0320.0 | U | 46.0 | | | QL=4 ST=2 TYP=3 |
| | 2804 | VORO | 8 S | 0405.6 | 0405.8 | 0.6 | 8.7 | | | |
| | 5730 | IRKU | 3 S | 0732.0 | 0735.6 | 14.0 | 44.0 | U | | |
| | 2840 | PEKG | 3 S | 0732.0 | 0735.6 | 10.0 | 26.7 | 19.4 | | |
| | 1415 | LEAR | 8 S | 0734.0 | 0734.0 | 2.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 8 S | 0734.0 | 0734.0 | 2.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SVTO | 8 S | 0734.0 | 0735.0 | 1.0 | 27.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SVTO | 8 S | 0734.0 | 0735.0 | 2.0 | 29.0 | | | QL=4 ST=2 TYP=3 |
| | 3000 | IZMI | 20 GRF | 0734.2 | 0735.4 | 6.9 | 30.0 | 9.0 | | |
| | 4995 | LEAR | 8 S | 0735.0 | 0735.0 | U | 23.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | LEAR | 8 S | 0735.0 | 0735.0 | U | 24.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 8 S | 0735.0 | 0735.0 | U | 23.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0835.0 | 0835.0 | U | 120.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 8 S | 0840.0 | 0840.0 | 1.0 | 330.0 | | | WR |
| | 245 | SVTO | 8 S | 0904.0 | 0905.0 | 1.0 | 64.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0913.0 | 0913.0 | U | 83.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 41 F | 0944.6 | 0945.0 | 0.5 | 58.0 | | | |
| | 2800 | PENT | 45 C | 1420.0 | 1432.0 | 23.0 | 125.0 | | | |
| | 2695 | SVTO | 48 C | 1426.0 | 1432.0 | 9.0 | 120.0 | | | QL=4 ST=2 TYP=8 |
| | 4995 | SVTO | 4 S/F | 1426.0 | 1432.0 | 9.0 | 210.0 | | | QL=4 ST=2 TYP=3 |
| | 8800 | SVTO | 4 S/F | 1426.0 | 1432.0 | 9.0 | 190.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 4 S/F | 1426.0 | 1430.0 | 8.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 2695 | SGMR | 48 C | 1426.0 | 1432.0 | 11.0 | 130.0 | | | QL=4 ST=2 TYP=8 |
| | 2695 | SGMR | 48 C | 1426.0 | 1432.0 | 574.0 | 130.0 | | | QL=4 ST=1 TYP=8 |
| | 15400 | SVTO | 4 S/F | 1427.0 | 1432.0 | 8.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 S/F | 1427.0 | 1430.0 | 10.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 4995 | SGMR | 48 C | 1427.0 | 1432.0 | 10.0 | 200.0 | | | QL=4 ST=2 TYP=8 |
| 1415 | SGMR | 4 S/F | 1427.0 | 1430.0 | 573.0 | 110.0 | | | QL=4 ST=1 TYP=3 | |
| 4995 | SGMR | 48 C | 1427.0 | 1432.0 | 573.0 | 200.0 | | | QL=4 ST=1 TYP=8 | |
| 610 | SGMR | 49 GB | 1428.0 | 1430.0 | 9.0 | 610.0 | | | QL=4 ST=2 TYP=6 | |
| 33 | UPIC | 48 C | 1428.0 | 1438.0 | 24.0 | | | | | |
| 610 | SGMR | 49 GB | 1428.0 | 1430.0 | 572.0 | 610.0 | | | QL=4 ST=1 TYP=6 | |
| 127 | TORN | 45 C | 1428.0 | 1431.1 | 5.2 | 120.0D | 30.0D | | | |
| 410 | SGMR | 4 S/F | 1429.0 | 1430.0 | 7.0 | 210.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 4 S/F | 1429.0 | 1429.0 | 7.0 | 210.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SVTO | 4 S/F | 1429.0 | 1429.0 | 6.0 | 200.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SVTO | 4 S/F | 1429.0 | 1430.0 | 4.0 | 170.0 | | | QL=4 ST=2 TYP=3 | |
| 610 | SVTO | 8 S | 1429.0 | 1430.0 | 1.0 | 430.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SGMR | 4 S/F | 1429.0 | 1430.0 | 571.0 | 210.0 | | | QL=4 ST=1 TYP=3 | |
| 245 | SGMR | 4 S/F | 1429.0 | 1429.0 | 571.0 | 210.0 | | | QL=4 ST=1 TYP=3 | |
| 15400 | SGMR | 4 S/F | 1430.0 | 1432.0 | 7.0 | 110.0 | | | QL=4 ST=2 TYP=3 | |
| 8800 | SGMR | 4 S/F | 1430.0 | 1432.0 | 7.0 | 160.0 | | | QL=4 ST=2 TYP=3 | |
| 15400 | SGMR | 4 S/F | 1430.0 | 1432.0 | 570.0 | 110.0 | | | QL=4 ST=1 TYP=3 | |
| 8800 | SGMR | 4 S/F | 1430.0 | 1432.0 | 570.0 | 160.0 | | | QL=4 ST=1 TYP=3 | |
| 235 | CUBA | 7 C | 1430.0 | 1432.6 | 6.5 | 22.0 | | | | |
| 280 | CUBA | 7 C | 1430.0 | 1432.6 | 6.5 | 25.0 | | | | |
| 127 | TORN | 47 GB | 1435.5 | 1436.0 | 6.0 | 700.0D | 120.0 | | | |
| 26 | 280 | CUBA | 44 NS | 1300.0E | | 450.0D | | 13.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 450.0D | | 6.0 | | |
| | 200 | HIRA | 8 S | 0004.0 | 0004.0 | 1.0 | 30.0 | | | 0 |
| | 200 | HIRA | 47 GB | 0226.0 | 0229.0 | 5.0 | 610.0 | | | ML |
| | 200 | HIRA | 8 S | 0344.0 | 0344.0 | 1.0 | 40.0 | | | 0 |
| | 204 | IZMI | 7 C | 0620.2 | 0620.4 | 0.4 | 31.0 | | | |

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

31
Aug 00

AUGUST 2000

| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|-----|------|-------|--------|---------------|----------------------------|-------------------|---------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 26 | 204 | IZMI | 42 SER | 0707.7 | 0709.6 | 5.4 | 48.0 | | | |
| | 204 | IZMI | 25 R | 1137.4 | | 22.60 | | 13.0 | | |
| | 200 | HIRA | 8 S | 2334.0 | 2335.0 | 2.0 | 100.0 | | 0 | |
| | 245 | LEAR | 8 S | 2334.0 | 2335.0 | 2.0 | 79.0 | | QL=4 ST=2 TYP=3 | |
| 27 | 204 | IZMI | 44 NS | 0600.0E | | 360.0D | | 10.0 | | |
| | 245 | SVTO | 43 NS | 0710.0 | 0711.0 | 1010.0 | 56.0 | | | QL=4 ST=1 TYP=1 |
| | 127 | TORN | 44 NS | 0930.0E | | 240.0D | | 3.0 | | V=1 |
| | 245 | LEAR | 43 NS | 2313.0 | 2315.0 | 7.0 | 52.0 | | | QL=4 ST=2 TYP=1 |
| | 245 | LEAR | 43 NS | 2313.0 | 2315.0 | 47.0 | 52.0 | | | QL=4 ST=1 TYP=1 |
| | 245 | SVTO | 4 S/F | 0534.0 | 0536.0 | 3.0 | 61.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0535.0 | 0536.0 | 2.0 | 79.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0606.0 | 0606.0 | 1.0 | 98.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0606.0 | 0606.0 | 1.0 | 87.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 4 S/F | 0641.0 | 0643.0 | 3.0 | 72.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 4 S/F | 0641.0 | 0643.0 | 3.0 | 69.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0711.0 | 0711.0 | U | 72.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0732.0 | 0733.0 | 2.0 | 99.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0905.0 | 0905.0 | 1.0 | 68.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 0905.0 | 0905.0 | 1.0 | 50.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1045.0 | 1045.0 | 1.0 | 91.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1140.0 | 1142.0 | 2.0 | 53.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1419.0 | 1420.0 | 1.0 | 160.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SVTO | 8 S | 1434.0 | 1435.0 | 2.0 | 60.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1446.0 | 1447.0 | 3.0 | 67.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SVTO | 8 S | 1447.0 | 1447.0 | U | 97.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 1523.0 | 1523.0 | U | 72.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SVTO | 8 S | 1641.0 | 1641.0 | U | 52.0 | | | QL=4 ST=2 TYP=3 | |
| 28 | 204 | IZMI | 44 NS | 0600.0E | | 103.0D | | 50.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 10.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 16.0 | | |
| | 200 | HIRA | 8 S | 0633.0 | 0634.0 | 2.0 | 30.0 | | | SR |
| | 33 | UPIC | 3 S | 0633.0 | 0633.5 | 1.0 | | | | |
| | 245 | SVTO | 8 S | 0821.0 | 0821.0 | 1.0 | 69.0 | | | QL=4 ST=2 TYP=3 |
| | 6700 | CUBA | 20 GRF | 1321.0E | 1321.0 | 64.0D | 11.0 | 5.0 | | 00L |
| | 6700 | CUBA | 22 GRF | 1659.0 | 1705.0 | 120.0 | 13.0 | 6.0 | | 17R |
| | 1415 | SGMR | 4 S/F | 1700.0 | 1702.0 | 5.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | SGMR | 4 S/F | 1700.0 | 1701.0 | 5.0 | 35.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SGMR | 4 S/F | 1700.0 | 1703.0 | 5.0 | 35.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | PALE | 4 S/F | 1701.0 | 1702.0 | 8.0 | 110.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1701.0 | 1704.0 | 4.0 | 44.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SVTO | 4 S/F | 1701.0 | 1701.0 | 4.0 | 170.0 | | | QL=4 ST=2 TYP=3 |
| | 1415 | SGMR | 4 S/F | 1706.0 | 1708.0 | 5.0 | 76.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1708.0 | 1709.0 | 3.0 | 49.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1809.0 | 1811.0 | 3.0 | 85.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 4 S/F | 1809.0 | 1811.0 | 3.0 | 85.0 | | | QL=4 ST=3 TYP=3 |
| | 245 | SGMR | 8 S | 1848.0 | 1849.0 | 2.0 | 86.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | PALE | 8 S | 1852.0 | 1853.0 | 1.0 | 120.0 | | | QL=4 ST=2 TYP=3 |
| 245 | SGMR | 4 S/F | 1852.0 | 1852.0 | 3.0 | 120.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SGMR | 8 S | 1910.0 | 1910.0 | 2.0 | 54.0 | | | QL=4 ST=2 TYP=3 | |
| 29 | 204 | IZMI | 43 NS | 1034.0 | | 86.0D | | 5.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 14.0 | | |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 8.0 | | |
| | 2840 | PEKG | 5 S | 0139.0 | 0141.9 | 4.0 | 12.2 | 7.4 | | |
| | 2804 | VORO | 8 S | 0141.2 | 0141.6 | 0.7 | 10.7 | | | |
| | 410 | SVTO | 8 S | 0634.0 | 0635.0 | 1.0 | 50.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 42 SER | 0739.0 | 0751.0 | 13.0 | 50.0 | | | |
| | 500 | HIRA | 42 SER | 0748.0 | 0751.0 | 4.0 | 40.0 | | | 0 |
| | 204 | IZMI | 42 SER | 0748.4 | 0750.6 | 4.1 | 140.0 | | | |
| | 245 | LEAR | 8 S | 0749.0 | 0750.0 | 1.0 | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0749.0 | 0750.0 | 1.0 | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0750.0 | 0750.0 | U | 59.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0750.0 | 0750.0 | U | 130.0 | | | QL=4 ST=2 TYP=3 |
| | 610 | LEAR | 8 S | 0750.0 | 0750.0 | U | 36.0 | | | QL=4 ST=2 TYP=3 |
| 610 | SVTO | 8 S | 0750.0 | 0750.0 | U | 36.0 | | | QL=4 ST=2 TYP=3 | |
| 410 | SVTO | 8 S | 0750.0 | 0750.0 | U | 72.0 | | | QL=4 ST=2 TYP=3 | |
| 245 | SVTO | 8 S | 0750.0 | 0750.0 | 1.0 | 130.0 | | | QL=4 ST=2 TYP=3 | |

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Aug 00

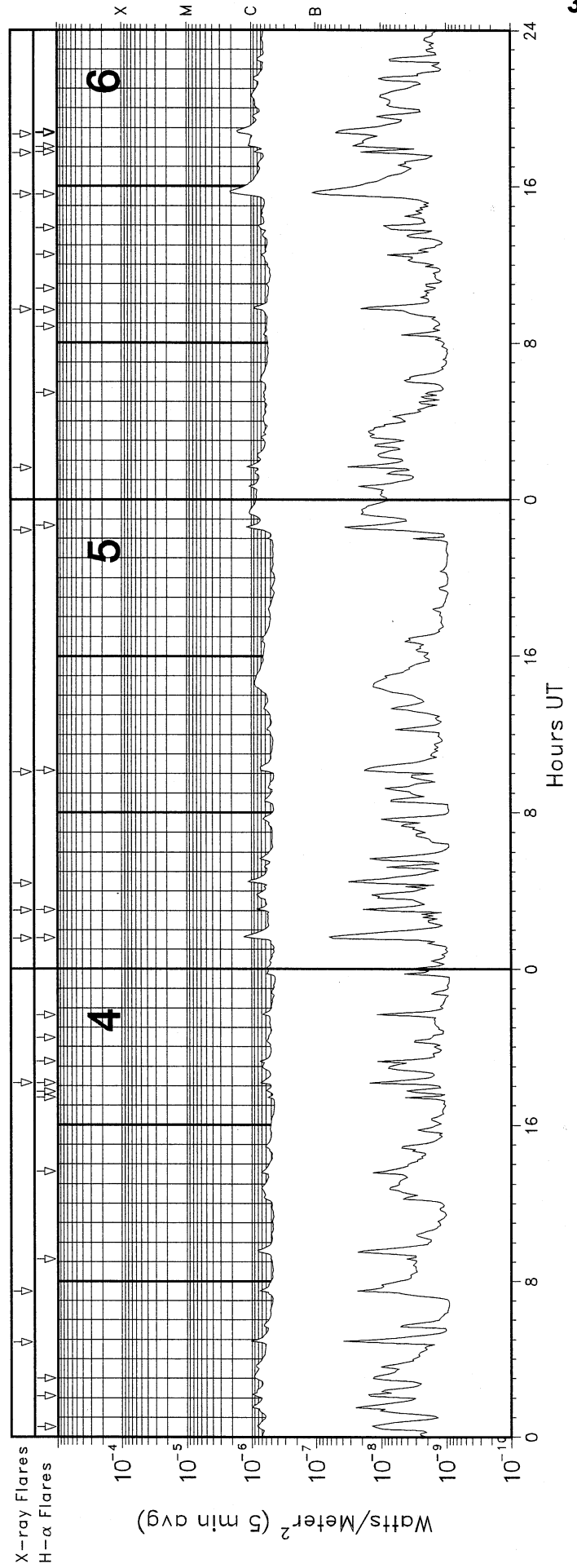
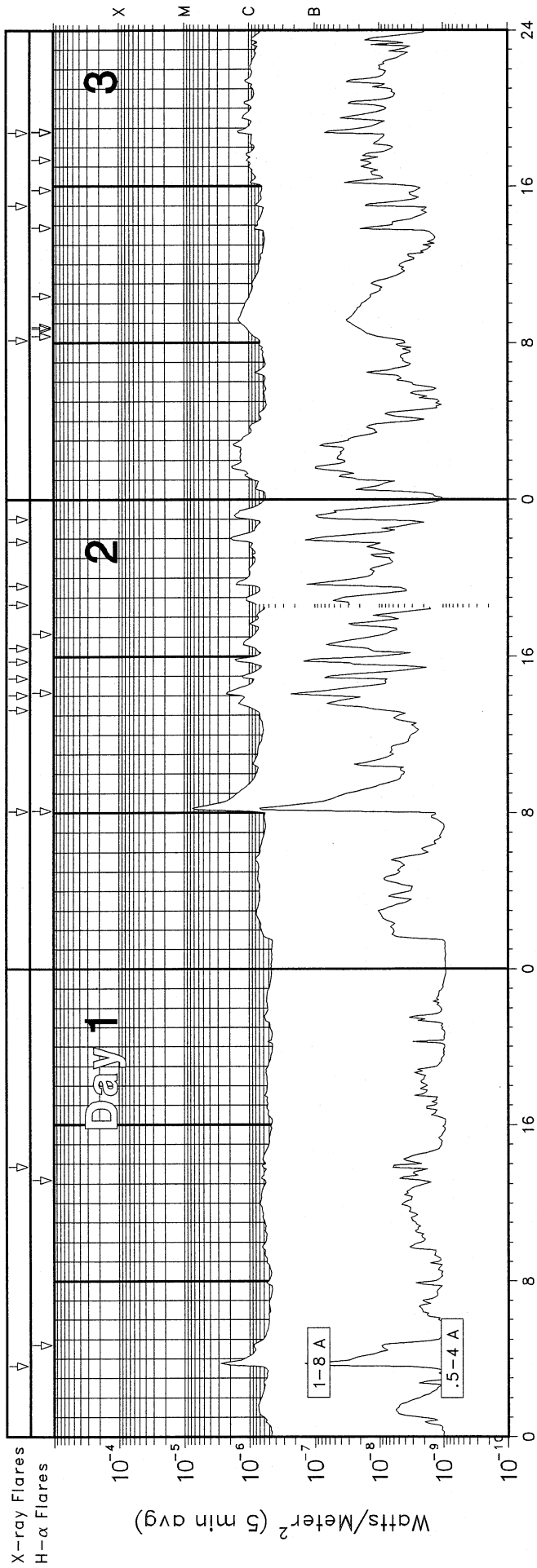
S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

AUGUST 2000

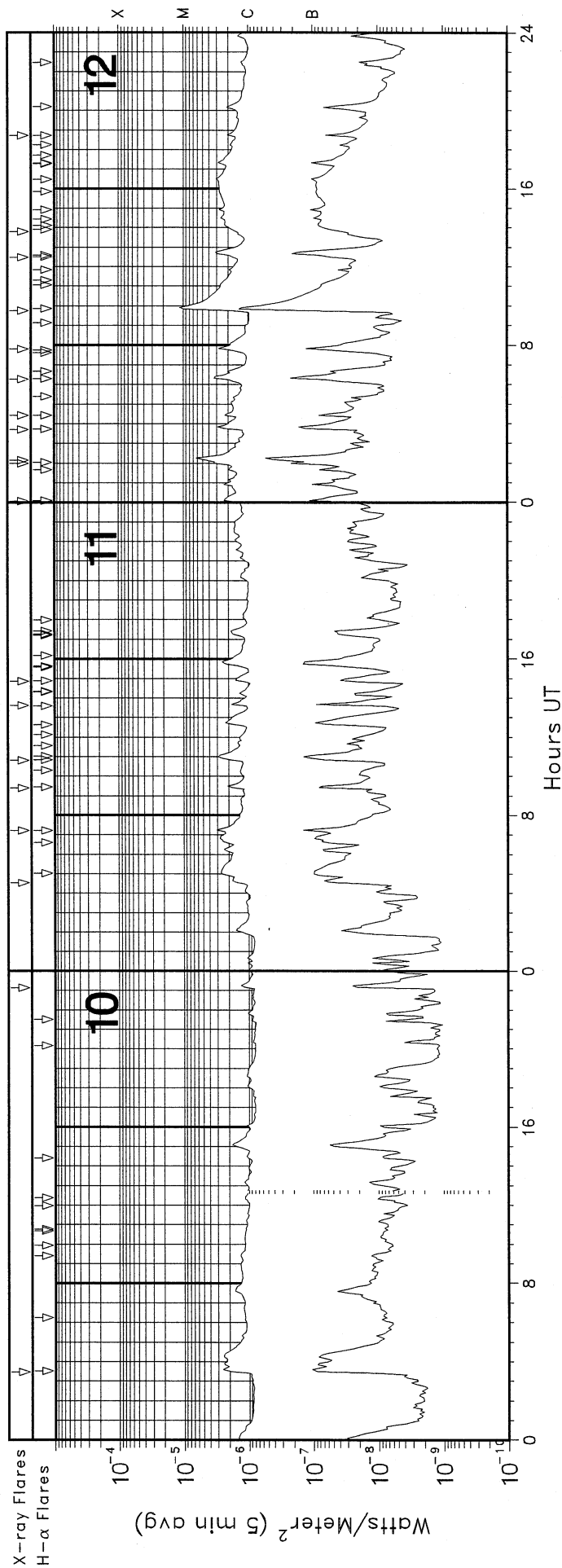
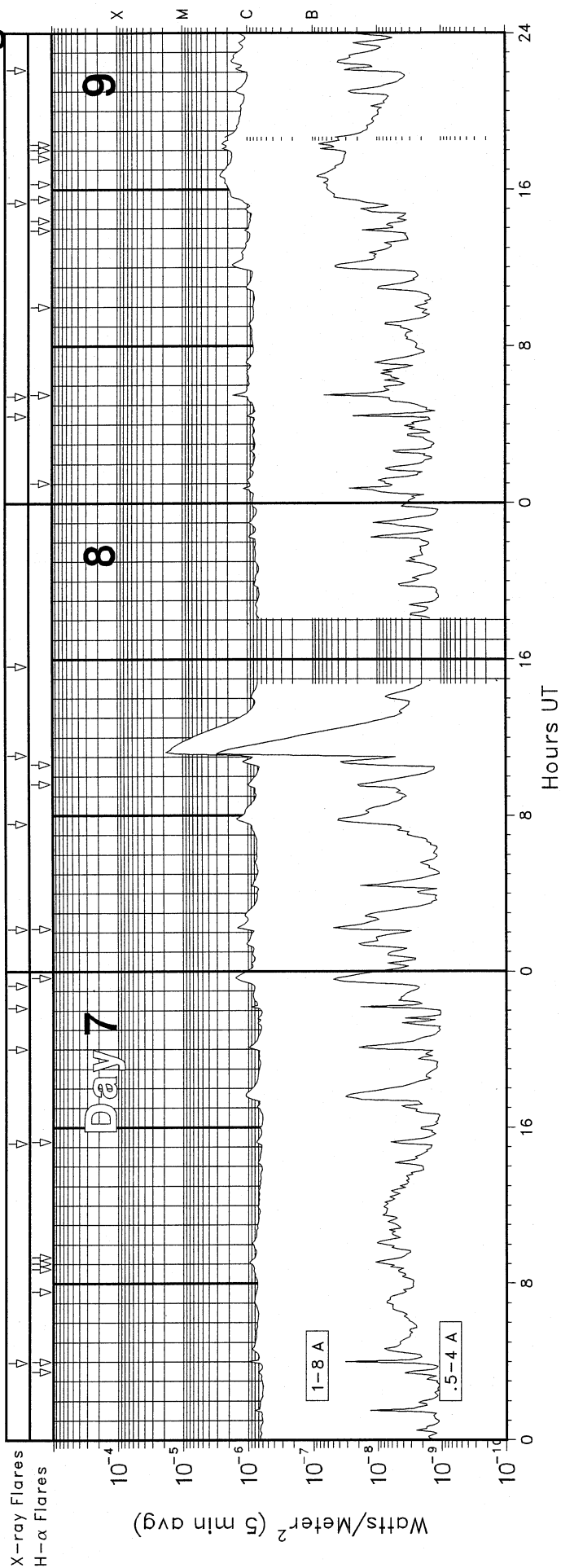
| Day | Freq | Sta | Type | Start (UT) | Time of Maximum (UT) | Duration (Min) | Flux Density | | Int | Remarks |
|------|------|--------|--------|---------------|----------------------------|-------------------|---------------------------|------|-----------------|-----------------|
| | | | | | | | Peak (10 -22 W/m 2 Hz) | Mean | | |
| 29 | 3000 | IZMI | 1 S | 0809.7 | 0809.9 | 0.4 | 8.0 | 4.0 | | |
| | 204 | IZMI | 7 C | 0832.9 | 0833.0 | 0.4 | 33.0 | | | |
| | 33 | UPIC | 42 SER | 0924.0 | 1214.0 | 171.0 | | | | |
| | 204 | IZMI | 41 F | 1040.4 | 1041.1 | 1.0 | 40.0 | | | |
| | 204 | IZMI | 42 SER | 1043.9 | 1044.0 | 0.7 | 154.0 | | | |
| | 2800 | PENT | 41 F | 1506.0 | 1511.0 | 17.0 | 12.0 | | | |
| | 6700 | CUBA | 2 S/F | 1510.5 | 1511.6 | 3.3 | 13.0 | 6.0 | | 3L |
| | 410 | SGMR | 8 S | 1516.0 | 1516.0 | 1.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1516.0 | 1516.0 | 1.0 | 220.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | SGMR | 49 GB | 1517.0 | 1517.0 | U | 510.0 | | | QL=4 ST=2 TYP=6 |
| | 245 | SVTO | 49 GB | 1517.0 | 1517.0 | U | 500.0 | | | QL=4 ST=2 TYP=6 |
| 2804 | VORO | 46 C | 2236.2 | 2237.8 | 3.2 | 10.5 | | | | |
| 30 | 204 | IZMI | 43 NS | 1129.0 | | 31.0D | | 20.0 | | |
| | 127 | TORN | 44 NS | 1250.0E | | 90.0D | | 6.0 | | V=2 |
| | 235 | CUBA | 44 NS | 1300.0E | | 530.0D | | 8.0 | | |
| | 280 | CUBA | 44 NS | 1300.0E | | 530.0D | | 14.0 | | |
| | 200 | HIRA | 8 S | 0042.0 | 0043.0 | 1.0 | 40.0 | | | WL |
| | 200 | HIRA | 8 S | 0058.0 | 0058.0 | 1.0 | 30.0 | | | 0 |
| | 200 | HIRA | 42 SER | 0102.0 | 0104.0 | 3.0 | 80.0 | | | 0 |
| | 245 | LEAR | 8 S | 0102.0 | 0102.0 | U | 190.0 | | | QL=4 ST=2 TYP=3 |
| | 245 | LEAR | 8 S | 0609.0 | 0611.0 | 2.0 | 50.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | LEAR | 8 S | 0610.0 | 0611.0 | 1.0 | 140.0 | | | QL=4 ST=2 TYP=3 |
| | 204 | IZMI | 41 F | 0637.1 | 0637.7 | 2.2 | 14.0 | | | |
| | 204 | IZMI | 7 C | 0742.5 | 0742.5 | 0.4 | 45.0 | | | |
| | 204 | IZMI | 42 SER | 0900.2 | 0901.0 | 1.4 | 71.0 | | | |
| | 410 | SVTO | 8 S | 1306.0 | 1306.0 | U | 72.0 | | | QL=4 ST=2 TYP=3 |
| | 410 | SVTO | 8 S | 1606.0 | 1606.0 | 2.0 | 54.0 | | | QL=4 ST=2 TYP=3 |
| | 200 | HIRA | 8 S | 2229.0 | 2229.0 | 1.0 | 30.0 | | | MR |
| | 31 | 127 | TORN | 44 NS | 0620.0E | | 520.0D | | 8.0 | |
| 235 | | CUBA | 44 NS | 1300.0E | | 480.0D | | 6.0 | | |
| 280 | | CUBA | 44 NS | 1300.0E | | 480.0D | | 18.0 | | |
| 410 | | SGMR | 43 NS | 1846.0 | 1850.0 | 314.0 | 210.0 | | | QL=4 ST=1 TYP=1 |
| 2800 | | PENT | 1 S | 0032.0 | 0034.0 | 5.0 | 12.0 | | | |
| 2840 | | PEKG | 5 S | 0032.0 | 0034.5 | 7.0 | 13.2 | 7.6 | | |
| 2804 | | VORO | 2 S/F | 0033.8 | 0034.8 | 2.3 | 13.4 | | | |
| 2804 | | VORO | 8 S | 0038.1 | 0038.2 | 0.2 | 9.0 | | | |
| 204 | | IZMI | 42 SER | 0602.5 | 0602.8 | 0.4 | 11.0 | | | |
| 204 | | IZMI | 42 SER | 0643.0 | 0643.7 | 0.8 | 32.0 | | | |
| 204 | | IZMI | 42 SER | 0840.4 | 0841.3 | 15.1 | 38.0 | | | |
| 127 | | TORN | 8 S | 0852.0 | 0852.2 | 1.0 | 100.0 | 50.0 | | |
| 410 | | SVTO | 8 S | 0940.0 | 0941.0 | 1.0 | 64.0 | | | QL=4 ST=2 TYP=3 |
| 245 | | SVTO | 8 S | 0940.0 | 0941.0 | 1.0 | 40.0 | | | QL=4 ST=2 TYP=3 |
| 204 | | IZMI | 46 C | 0940.6 | 0941.0 | 0.7 | 146.0 | | | |
| 204 | | IZMI | 42 SER | 1047.8 | 1049.7 | 3.1 | 25.0 | | | |
| 245 | | SVTO | 8 S | 1239.0 | 1241.0 | 2.0 | 49.0 | | | QL=4 ST=4 TYP=3 |
| 610 | | SVTO | 8 S | 1248.0 | 1248.0 | 1.0 | 6.0 | | | QL=4 ST=4 TYP=3 |
| 6700 | | CUBA | 1 S | 1326.0 | 1327.0 | 2.0 | 6.0 | 3.0 | | 38R |
| 33 | | UPIC | 45 C | 1404.0 | 1404.5 | 1.0 | | | | |
| 245 | | SGMR | 8 S | 1534.0 | 1535.0 | 2.0 | 74.0 | | | QL=4 ST=2 TYP=3 |
| 245 | | SGMR | 8 S | 1537.0 | 1537.0 | 1.0 | 100.0 | | | QL=4 ST=2 TYP=3 |
| 410 | | SGMR | 4 S/F | 1825.0 | 1828.0 | 335.0 | 89.0 | | | QL=4 ST=1 TYP=3 |
| 245 | PALE | 8 S | 1832.0 | 1832.0 | U | 230.0 | | | QL=4 ST=2 TYP=3 | |
| 2800 | PENT | 20 GRF | 2021.0 | 2027.0 | 29.0 | 5.0 | | | | |

GOES X-RAY DETECTOR

August 2000

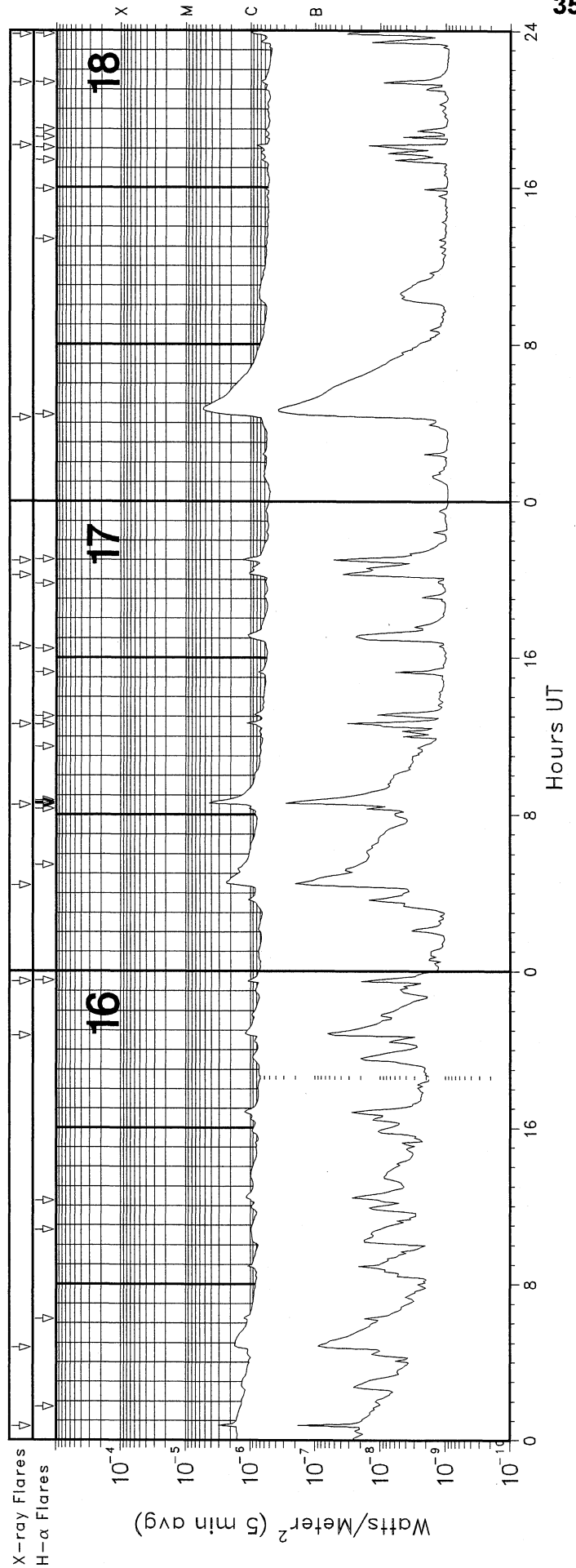
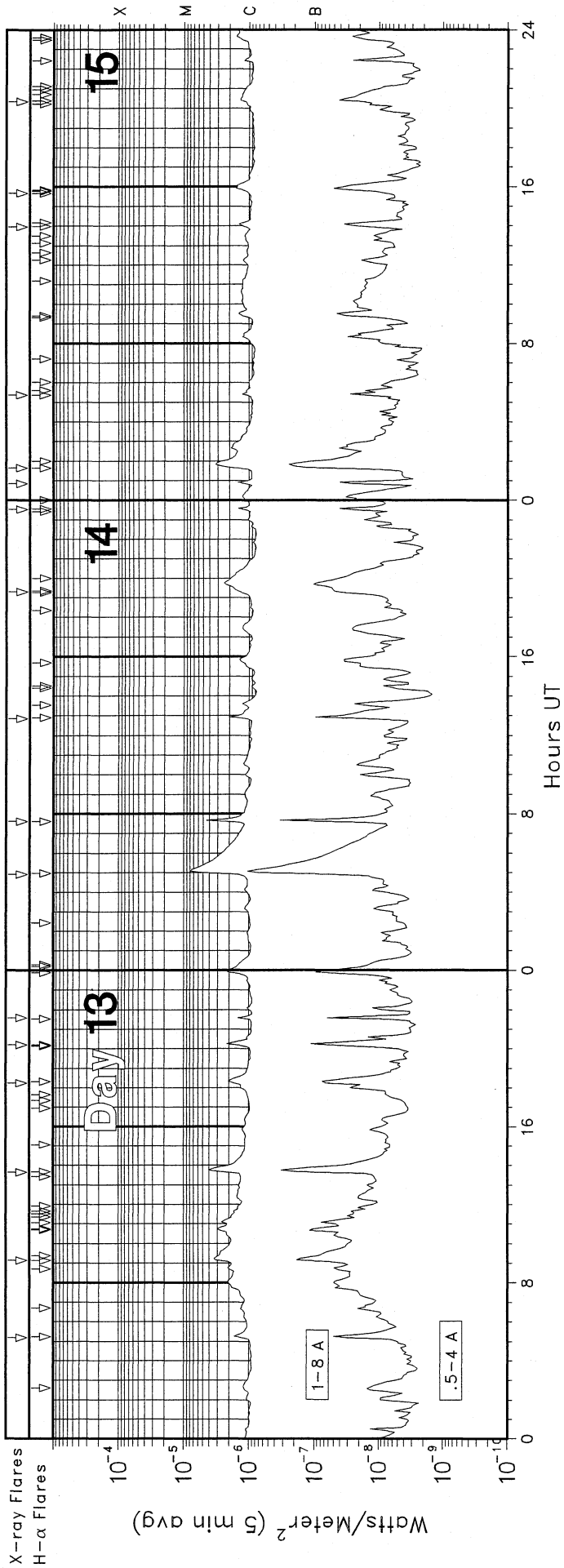


GOES X-RAY DETECTOR August 2000



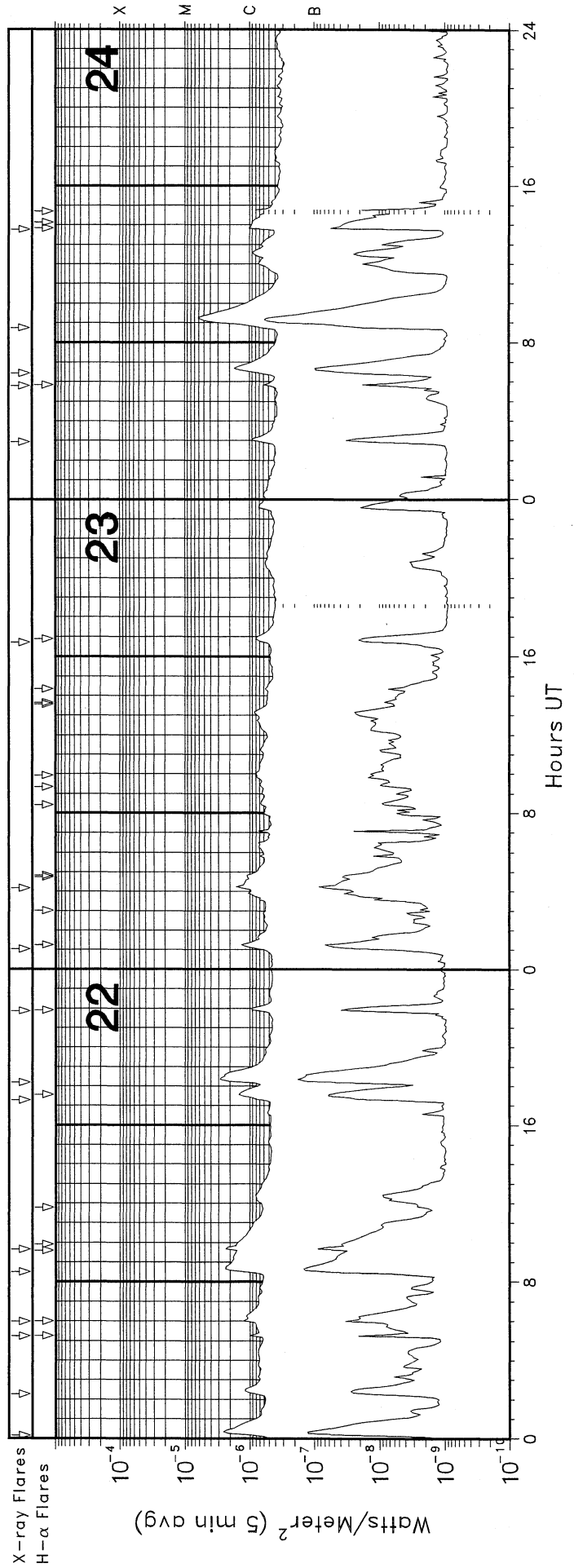
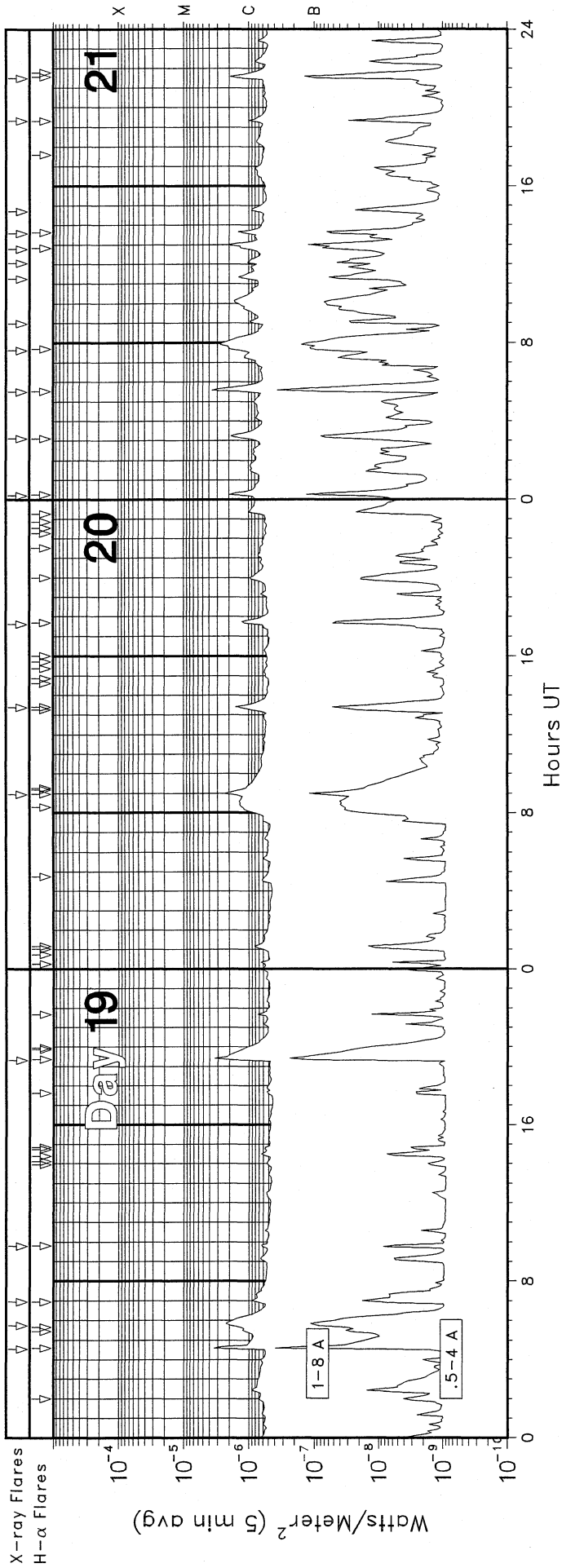
GOES X-RAY DETECTOR

August 2000



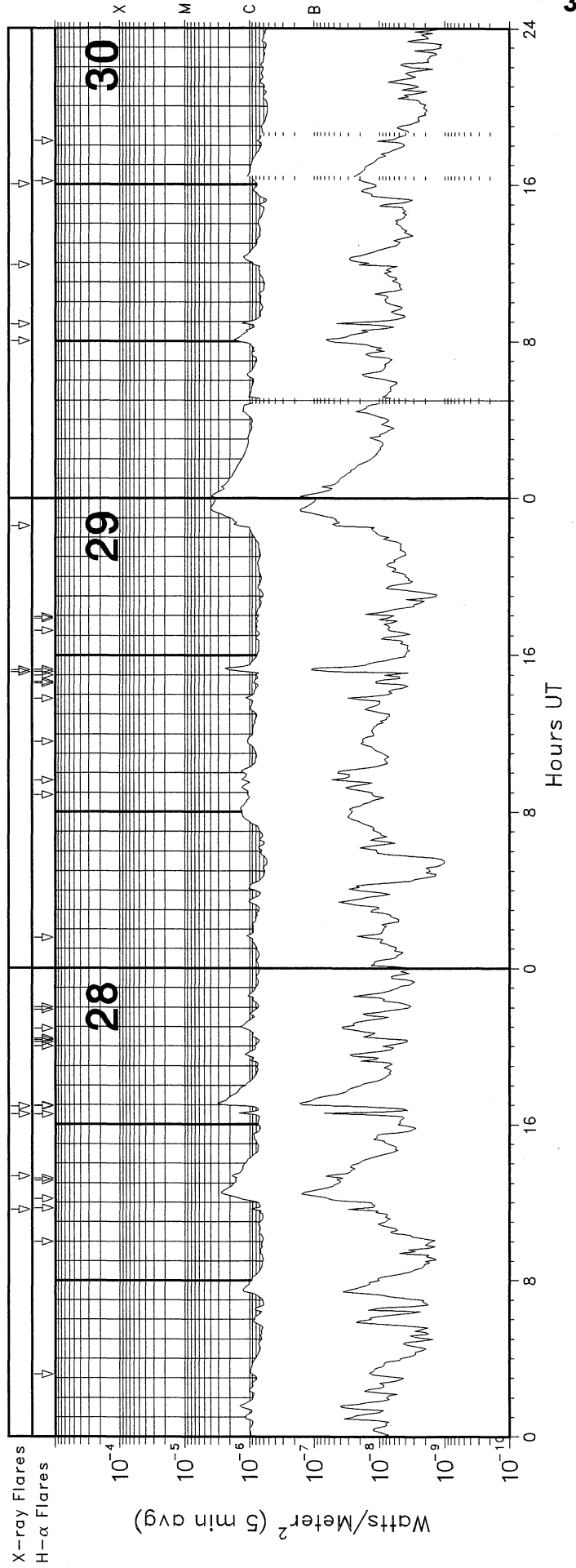
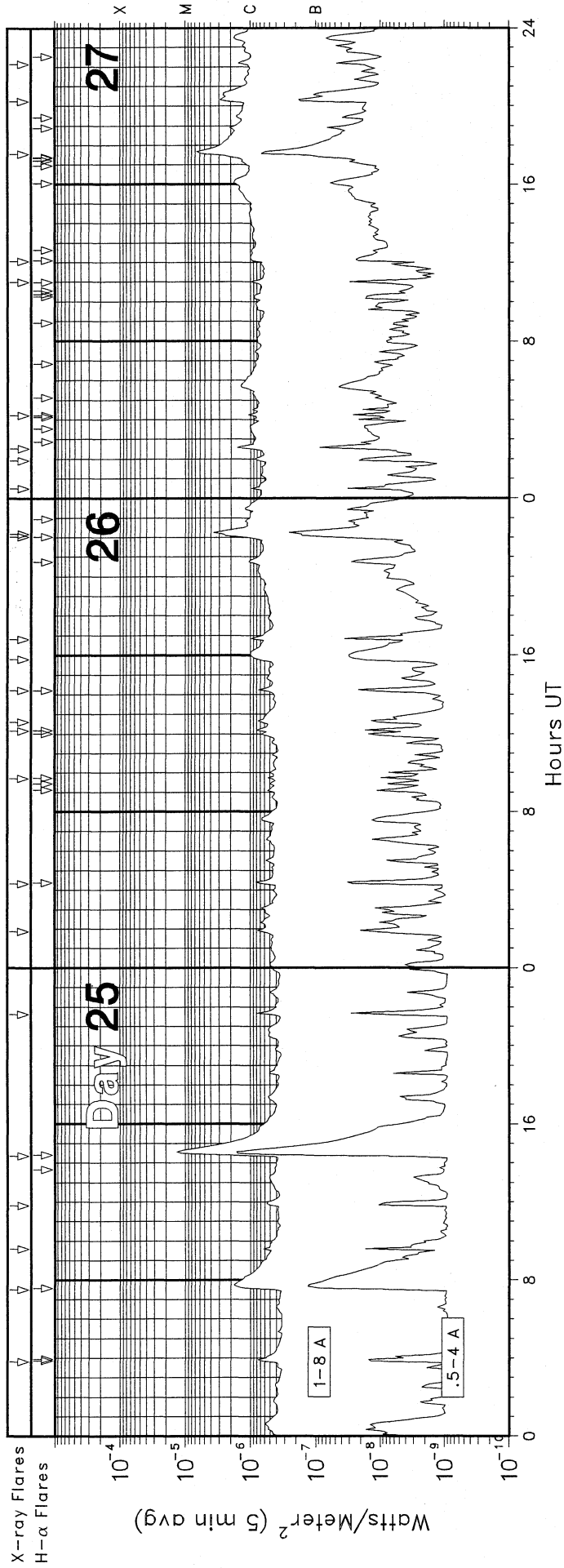
GOES X-RAY DETECTOR

August 2000



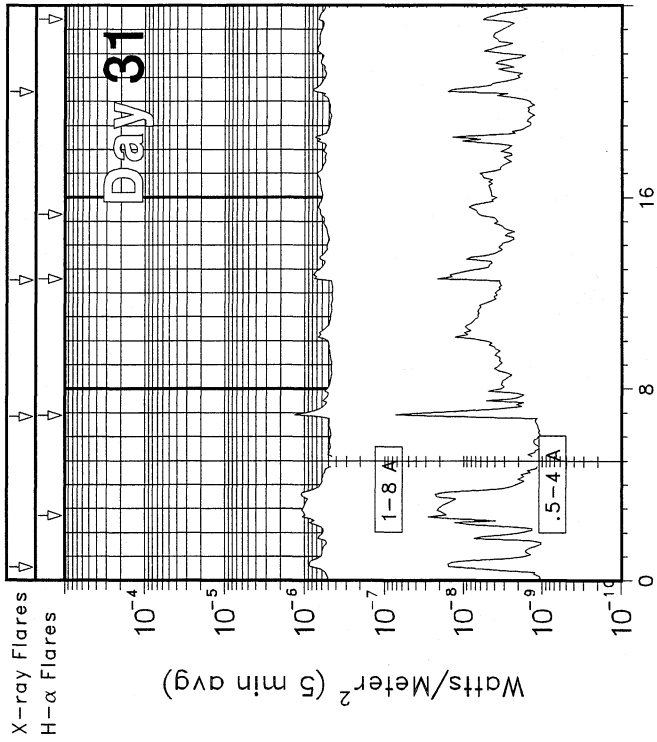
GOES X-RAY DETECTOR

August 2000



GOES X-RAY DETECTOR

August 2000



GOES SOLAR X-RAY FLARES
 Preliminary Listing

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 Aug 00

August 2000

| Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | Opt | Imp Xray | NOAA/USAF Region | Flux |
|-----|------------|----------|----------|-----|-----|-----|----------|------------------|---------|
| 01 | 0337 | 0346 | 0354 | | | | C2.8 | | 2.1E-03 |
| 01 | 1351 | 1354 | 1356 | | | | B7.8 | | 2.0E-04 |
| 02 | 0805 | 0815 | 0826 | | | | C7.9 | | 6.5E-03 |
| 02 | 1316 | 1337 | 1400 | | | | C1.5 | | 3.1E-03 |
| 02 | 1401 | 1409 | 1419 | S27 | W08 | SF | C2.3 | | 2.1E-03 |
| 02 | 1453 | 1459 | 1506 | | | | C1.3 | | 9.3E-04 |
| 02 | 1544 | 1549 | 1555 | | | | C1.8 | | 1.0E-03 |
| 02 | 1626 | 1639 | 1655 | | | | C1.2 | | 1.9E-03 |
| 02 | 1840 | 1900 | 1911 | | | | C1.1 | | 1.8E-03 |
| 02 | 1936 | 1943 | 1957 | | | | C1.6 | | 1.7E-03 |
| 02 | 2151 | 2200 | 2213 | | | | C1.9 | | 2.2E-03 |
| 02 | 2300 | 2313 | 2331 | | | | C1.7 | | 2.7E-03 |
| 03 | 0808 | 0911 | 1012 | | | | C1.4 | | 8.5E-03 |
| 03 | 1500 | 1503 | 1511 | | | | B8.6 | | 5.1E-04 |
| 03 | 1845 | 1848 | 1853 | N15 | E82 | SF | C1.9 | | 7.4E-04 |
| 04 | 0451 | 0456 | 0501 | | | | C1.1 | | 5.4E-04 |
| 04 | 0729 | 0732 | 0735 | | | | B9.3 | | 2.7E-04 |
| 04 | 1809 | 1813 | 1816 | N15 | E57 | SF | B8.0 | 9114 | 2.9E-04 |
| 05 | 0134 | 0140 | 0149 | S19 | E06 | SF | C1.4 | 9110 | 9.7E-04 |
| 05 | 0301 | 0306 | 0312 | S25 | W38 | SF | B8.5 | 9113 | 4.9E-04 |
| 05 | 0425 | 0433 | 0440 | | | | C1.1 | | 8.7E-04 |
| 05 | 1006 | 1010 | 1032 | N19 | E66 | SF | B7.6 | 9115 | 1.1E-03 |
| 05 | 2225 | 2237 | 2247 | N20 | W25 | SF | C1.2 | 9111 | 1.2E-03 |
| 06 | 0137 | 0141 | 0147 | | | | C1.2 | | 6.2E-04 |
| 06 | 0942 | 0948 | 0954 | N11 | E33 | SF | B9.8 | 9114 | 6.0E-04 |
| 06 | 1535 | 1545 | 1554 | N09 | E31 | SF | C2.1 | 9114 | 2.1E-03 |
| 06 | 1743 | 1749 | 1752 | N10 | E30 | SF | C1.1 | 9114 | 4.5E-04 |
| 06 | 1840 | 1849 | 1905 | S20 | W32 | SF | C1.7 | 9107 | 2.1E-03 |
| 07 | 0357 | 0401 | 0403 | | | | C1.3 | | 3.5E-04 |
| 07 | 1511 | 1517 | 1524 | N13 | E19 | SF | B7.6 | 9114 | 5.7E-04 |
| 07 | 2001 | 2005 | 2017 | | | | C1.0 | | 8.9E-04 |
| 07 | 2207 | 2211 | 2213 | | | | C1.0 | | 3.1E-04 |
| 07 | 2317 | 2342 | 0007 | N23 | E49 | SF | C1.6 | 9122 | 3.6E-03 |
| 08 | 0210 | 0217 | 0227 | | | | C1.4 | | 1.3E-03 |
| 08 | 0735 | 0752 | 0803 | | | | C1.5 | | 2.1E-03 |
| 08 | 1105 | 1115 | 1149 | | | | M1.9 | | 3.3E-02 |
| 08 | 1538 | 1554 | 1620 | | | | C1.4 | | 2.9E-03 |
| 09 | 0425 | 0428 | 0431 | | | | C1.1 | | 3.7E-04 |
| 09 | 0527 | 0532 | 0536 | N21 | E31 | SF | C1.8 | 9122 | 7.8E-04 |
| 09 | 1519 | 1622 | 1700 | N11 | W11 | SF | C2.3 | 9114 | 1.2E-02 |
| 09 | 2205 | 2209 | 2215 | | | | C1.5 | | 8.6E-04 |
| 10 | 0328 | 0354 | 0440 | S19 | W71 | 1F | C2.6 | 9110 | 9.7E-03 |
| 10 | 2309 | 2315 | 2325 | | | | C1.3 | | 1.2E-03 |
| 11 | 0432 | 0510 | 0546 | N05 | W32 | SF | C2.6 | | 9.5E-03 |
| 11 | 0713 | 0717 | 0722 | N26 | E66 | SF | C3.2 | 9125 | 1.6E-03 |
| 11 | 0924 | 0930 | 0936 | | | | C2.2 | | 1.4E-03 |
| 11 | 1049 | 1103 | 1113 | | | | C3.0 | | 3.5E-03 |
| 11 | 1338 | 1341 | 1347 | N04 | W37 | SF | C1.9 | 9114 | 8.9E-04 |
| 11 | 1451 | 1459 | 1510 | S08 | E53 | SF | C1.5 | 9124 | 1.6E-03 |
| 12 | 0003 | 0007 | 0022 | S14 | E55 | SF | C2.5 | 9124 | 2.4E-03 |
| 12 | 0200 | 0204 | 0207 | N14 | W43 | SF | C4.8 | 9114 | 1.5E-03 |
| 12 | 0209 | 0216 | 0221 | N21 | E53 | SF | C6.5 | 9125 | 3.9E-03 |
| 12 | 0342 | 0351 | 0359 | | | | C3.1 | | 2.4E-03 |
| 12 | 0425 | 0428 | 0431 | S10 | E39 | SF | C2.6 | | 8.4E-04 |
| 12 | 0617 | 0623 | 0630 | S13 | E52 | SF | C3.5 | 9124 | 2.4E-03 |

| Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | Opt | Imp Xray | NOAA/USAF Region | Flux |
|-----|------------|----------|----------|-----|-----|-----|----------|------------------|---------|
| 12 | 0748 | 0752 | 0756 | N21 | E50 | SF | C3.0 | 9125 | 1.3E-03 |
| 12 | 0945 | 0956 | 1009 | | | | M1.1 | | 1.1E-02 |
| 12 | 1229 | 1244 | 1253 | N13 | W50 | SF | C3.2 | 9114 | 3.5E-03 |
| 12 | 1348 | 1630 | 1707 | N13 | W46 | SF | C3.2 | 9114 | 2.9E-02 |
| 12 | 1843 | 1846 | 1849 | N23 | E44 | SF | C2.2 | 9125 | 7.2E-04 |
| 13 | 0510 | 0515 | 0524 | S14 | E39 | SF | C1.7 | 9124 | 1.2E-03 |
| 13 | 0908 | 0914 | 0928 | N06 | W66 | SF | C3.5 | 9126 | 3.7E-03 |
| 13 | 1338 | 1348 | 1357 | N22 | E33 | SF | C4.1 | 9125 | 3.7E-03 |
| 13 | 1815 | 1822 | 1830 | N22 | E30 | SF | C2.0 | 9125 | 1.7E-03 |
| 13 | 2011 | 2017 | 2022 | N13 | W68 | SF | C2.3 | 9114 | 1.2E-03 |
| 13 | 2135 | 2138 | 2140 | N23 | E30 | SF | C1.8 | 9125 | 4.5E-04 |
| 14 | 0456 | 0508 | 0529 | N06 | W75 | 1F | C8.1 | 9126 | 1.1E-02 |
| 14 | 0737 | 0742 | 0745 | S06 | E47 | 1F | C5.5 | 9129 | 1.7E-03 |
| 14 | 1251 | 1256 | 1300 | S05 | E56 | SF | C2.2 | 9129 | 9.2E-04 |
| 14 | 1918 | 1948 | 2005 | N22 | E17 | SF | C1.6 | 9125 | 5.4E-03 |
| 14 | 2331 | 2335 | 2339 | S04 | E50 | SF | C1.6 | 9129 | 6.5E-04 |
| 15 | 0051 | 0055 | 0059 | | | | C1.6 | | 6.7E-04 |
| 15 | 0138 | 0153 | 0205 | N21 | E13 | SF | C3.3 | 9125 | 4.3E-03 |
| 15 | 0522 | 0526 | 0532 | N29 | E14 | SF | C1.3 | 9125 | 7.1E-04 |
| 15 | 1358 | 1407 | 1413 | N31 | E08 | SF | C1.4 | 9125 | 1.2E-03 |
| 15 | 1540 | 1555 | 1612 | | | | C1.6 | 9125 | 2.5E-03 |
| 15 | 2020 | 2029 | 2040 | N21 | E00 | SF | C1.4 | 9125 | 1.5E-03 |
| 16 | 0042 | 0046 | 0048 | | | | C4.1 | | 9.8E-04 |
| 16 | 0444 | 0454 | 0534 | | | | C1.8 | | 4.8E-03 |
| 16 | 2044 | 2053 | 2114 | | | | C1.2 | | 2.0E-03 |
| 16 | 2329 | 2333 | 2336 | N11 | E32 | SF | C1.2 | 9131 | 4.4E-04 |
| 17 | 0425 | 0435 | 0455 | | | | C2.4 | | 3.7E-03 |
| 17 | 0831 | 0837 | 0845 | N17 | E28 | 1N | C4.9 | 9131 | 2.8E-03 |
| 17 | 1237 | 1241 | 1244 | N22 | W17 | SF | C1.2 | 9125 | 4.4E-04 |
| 17 | 1634 | 1709 | 1719 | N06 | W04 | SF | C1.1 | 9136 | 2.1E-03 |
| 17 | 2012 | 2018 | 2043 | | | | C1.0 | | 1.7E-03 |
| 17 | 2057 | 2103 | 2107 | N07 | W07 | SF | C1.4 | 9136 | 7.1E-04 |
| 18 | 0416 | 0445 | 0520 | S38 | W58 | 1F | C5.5 | 9127 | 1.4E-02 |
| 18 | 1809 | 1810 | 1812 | N23 | W32 | SF | C1.1 | 9125 | 1.7E-04 |
| 18 | 2121 | 2124 | 2127 | N23 | W33 | SF | B7.8 | 9125 | 2.5E-04 |
| 18 | 2350 | 2355 | 2357 | N22 | W34 | SF | C1.3 | 9125 | 4.4E-04 |
| 19 | 0432 | 0439 | 0442 | N22 | W37 | SF | C5.0 | 9125 | 1.7E-03 |
| 19 | 0544 | 0553 | 0601 | | | | C2.2 | | 2.1E-03 |
| 19 | 0656 | 0703 | 0712 | N21 | W04 | SF | B8.9 | 9132 | 7.8E-04 |
| 19 | 0946 | 0950 | 0952 | | | | B7.7 | | 2.4E-04 |
| 19 | 1919 | 1925 | 1930 | N21 | W46 | 1F | C4.1 | 9125 | 1.6E-03 |
| 20 | 0856 | 0902 | 0907 | N25 | W55 | SF | C2.3 | 9125 | 1.3E-03 |
| 20 | 1323 | 1327 | 1330 | N25 | W58 | SF | C1.6 | 9125 | 6.3E-04 |
| 20 | 1737 | 1743 | 1753 | N21 | W58 | SF | C1.2 | 9125 | 1.0E-03 |
| 21 | 0012 | 0016 | 0024 | N21 | W61 | SF | C2.0 | 9125 | 1.2E-03 |
| 21 | 0307 | 0312 | 0324 | N28 | W63 | SF | C1.9 | 9125 | 1.6E-03 |
| 21 | 0530 | 0538 | 0543 | N22 | W67 | 1F | C4.1 | 9125 | 2.1E-03 |
| 21 | 0736 | 0758 | 0808 | N23 | W67 | SF | C2.8 | 9125 | 4.1E-03 |
| 21 | 0859 | 0906 | 0913 | | | | B9.9 | | 7.5E-04 |
| 21 | 1115 | 1122 | 1128 | | | | C1.4 | | 1.0E-03 |
| 21 | 1203 | 1207 | 1218 | | | | C1.1 | | 8.7E-04 |
| 21 | 1247 | 1302 | 1306 | N24 | W69 | SF | C2.3 | 9125 | 1.8E-03 |
| 21 | 1335 | 1340 | 1344 | N24 | W70 | SF | C1.7 | 9125 | 7.1E-04 |
| 21 | 1443 | 1448 | 1456 | | | | B9.5 | | 6.8E-04 |
| 21 | 1918 | 1922 | 1924 | N21 | W75 | SF | C1.0 | 9125 | 3.4E-04 |
| 21 | 2129 | 2134 | 2138 | N21 | W76 | SF | C2.8 | 9125 | 9.1E-04 |

40
Aug 00

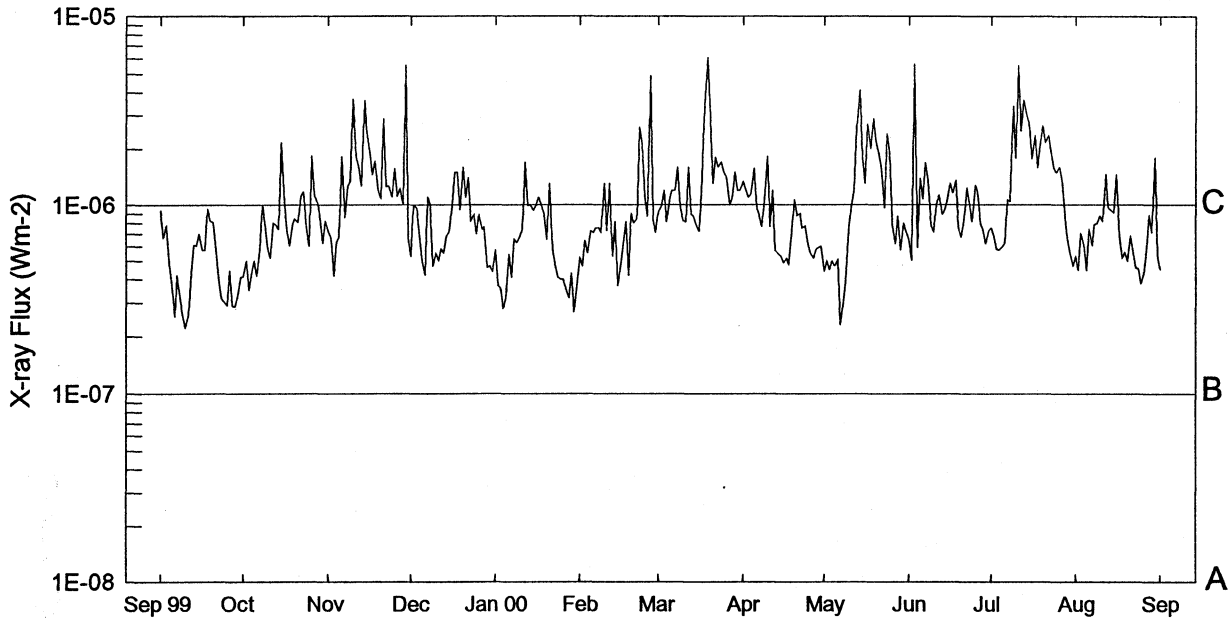
GOES SOLAR X-RAY FLARES
Preliminary Listing

August 2000

| Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | Opt | Imp Xray | NOAA/ USAF Region | Flux |
|-----|------------|----------|----------|-----|-----|-----|-----------|-------------------|------|
| 22 | 0008 | 0021 | 0040 | | | | C2.5 | 3.6E-03 | |
| 22 | 0216 | 0233 | 0241 | | | | C1.2 | 1.6E-03 | |
| 22 | 0513 | 0516 | 0521 | N15 | W34 | SF | C1.1 9131 | 4.5E-04 | |
| 22 | 0558 | 0602 | 0608 | S06 | W48 | SF | C1.3 9129 | 6.9E-04 | |
| 22 | 0829 | 0843 | 0939 | | | | C2.3 | 7.8E-03 | |
| 22 | 0939 | 0944 | 0948 | N16 | W36 | SF | C2.7 9131 | 1.2E-03 | |
| 22 | 1716 | 1735 | 1754 | S09 | E00 | SF | C1.5 9139 | 2.5E-03 | |
| 22 | 1811 | 1823 | 1848 | | | | C2.9 | 5.0E-03 | |
| 22 | 2152 | 2159 | 2207 | N14 | W46 | SF | B9.8 9131 | 7.7E-04 | |
| 23 | 0102 | 0115 | 0125 | | | | C1.3 | 1.5E-03 | |
| 23 | 0411 | 0415 | 0420 | | | | C1.7 | 8.2E-04 | |
| 23 | 1642 | 1657 | 1709 | S09 | W12 | SF | B7.9 9139 | 1.1E-03 | |
| 24 | 0255 | 0303 | 0313 | | | | B9.7 | 8.6E-04 | |
| 24 | 0547 | 0550 | 0557 | S19 | E88 | SF | B6.1 9143 | 3.2E-04 | |
| 24 | 0626 | 0642 | 0656 | | | | C1.7 | 2.3E-03 | |
| 24 | 0845 | 0917 | 0933 | | | | C6.2 | 1.1E-02 | |
| 24 | 1347 | 1351 | 1418 | S19 | E79 | SF | C1.2 9143 | 1.7E-03 | |
| 25 | 0348 | 0355 | 0401 | N07 | E36 | SF | B8.1 9140 | 5.3E-04 | |
| 25 | 0731 | 0746 | 0817 | S17 | E69 | SF | C1.7 9143 | 3.8E-03 | |
| 25 | 0935 | 0938 | 0940 | | | | B9.1 | 1.9E-04 | |
| 25 | 1149 | 1159 | 1205 | | | | B6.0 | 5.2E-04 | |
| 25 | 1421 | 1435 | 1446 | S15 | E67 | 1N | M1.4 9143 | 1.2E-02 | |
| 25 | 2136 | 2141 | 2146 | | | SF | B8.1 9143 | 3.9E-04 | |
| 26 | 0152 | 0156 | 0158 | | | | B8.4 | 2.7E-04 | |
| 26 | 0420 | 0424 | 0428 | | | SF | C1.1 9144 | 3.8E-04 | |
| 26 | 0943 | 0946 | 0948 | | | | B5.9 | 1.5E-04 | |
| 26 | 1209 | 1212 | 1216 | | | | B9.2 | 3.3E-04 | |
| 26 | 1236 | 1239 | 1246 | | | | B7.7 | 4.3E-04 | |
| 26 | 1412 | 1415 | 1419 | N25 | E07 | SF | B8.6 9144 | 3.0E-04 | |

| Day | Start (UT) | Max (UT) | End (UT) | Lat | CMD | Opt | Imp Xray | NOAA/ USAF Region | Flux |
|-----|------------|----------|----------|-----|-----|-----|-----------|-------------------|------|
| 26 | 1547 | 1604 | 1622 | | | | C1.0 | 1.9E-03 | |
| 26 | 1648 | 1653 | 1658 | | | | C1.0 | 5.3E-04 | |
| 26 | 2201 | 2216 | 2224 | N26 | E02 | 1N | C3.8 9144 | 3.6E-03 | |
| 26 | 2210 | 2216 | 2221 | | | | C3.9 | 2.2E-03 | |
| 27 | 0029 | 0032 | 0035 | | | SF | C1.1 9144 | 3.4E-04 | |
| 27 | 0155 | 0159 | 0204 | | | | B9.9 | 4.4E-04 | |
| 27 | 0232 | 0238 | 0242 | | | | C1.8 | 8.5E-04 | |
| 27 | 0412 | 0416 | 0419 | | | | C1.1 | 4.3E-04 | |
| 27 | 1059 | 1102 | 1104 | S18 | E43 | SF | C1.1 9143 | 2.9E-04 | |
| 27 | 1204 | 1208 | 1251 | N08 | E06 | SF | C1.0 9140 | 3.7E-03 | |
| 27 | 1733 | 1740 | 1749 | S17 | E40 | SF | C6.9 9143 | 5.4E-03 | |
| 27 | 2013 | 2021 | 2048 | S18 | E39 | SF | C2.9 9143 | 5.2E-03 | |
| 27 | 2208 | 2212 | 2217 | | | | C1.5 | 7.7E-04 | |
| 28 | 1138 | 1142 | 1144 | S21 | E24 | SF | C1.1 9143 | 3.3E-04 | |
| 28 | 1320 | 1324 | 1327 | S19 | E30 | SF | C2.2 9143 | 8.1E-04 | |
| 28 | 1632 | 1636 | 1639 | S19 | E23 | SF | C1.7 9143 | 5.4E-04 | |
| 28 | 1656 | 1704 | 1728 | | | | C3.3 9143 | 4.5E-03 | |
| 29 | 1509 | 1512 | 1515 | S20 | E14 | SF | C1.7 9147 | 4.6E-04 | |
| 29 | 1515 | 1519 | 1523 | N01 | E68 | SN | C3.3 9147 | 1.2E-03 | |
| 29 | 2235 | 0008 | 0028 | | | | C4.2 | 2.0E-02 | |
| 30 | 0801 | 0804 | 0812 | | | | C1.8 | 1.1E-03 | |
| 30 | 0852 | 0857 | 0901 | | | | C1.3 | 6.4E-04 | |
| 30 | 1154 | 1220 | 1237 | | | | C1.2 | 2.7E-03 | |
| 30 | 1601 | 1628 | 1733 | N10 | W30 | SF | C1.0 9140 | 4.7E-03 | |
| 31 | 0032 | 0041 | 0054 | | | | B9.0 | 1.1E-03 | |
| 31 | 0650 | 0656 | 0700 | S18 | W09 | SF | C1.6 9143 | 6.3E-04 | |
| 31 | 1233 | 1237 | 1301 | S16 | W12 | SF | B8.7 9143 | 1.2E-03 | |
| 31 | 2025 | 2029 | 2036 | | | | B8.4 | 5.1E-04 | |

Preliminary GOES Satellite Daily X-Ray Background Sep 1999 - Aug 2000



| Day | Sep 99 | Oct | Nov | Dec | Jan 00 | Feb | Mar | Apr | May | Jun | Jul | Aug |
|-----|--------|------|------|------|--------|------|------|------|------|------|------|------|
| 1 | B9.3 | B4.1 | B7.3 | B5.3 | B5.7 | B5.2 | B9.2 | C1.3 | B4.4 | B6.4 | B7.4 | B5.2 |
| 2 | B6.6 | B4.9 | B6.5 | C1.0 | B3.7 | B4.7 | B9.9 | C1.2 | B5.0 | B5.0 | B6.7 | B4.4 |
| 3 | B7.7 | B3.4 | B4.1 | B9.6 | B3.6 | B6.4 | C1.2 | C1.0 | B4.5 | C5.6 | B5.7 | B7.0 |
| 4 | B4.9 | B4.2 | B6.3 | B7.1 | B2.8 | B5.5 | B8.1 | C1.1 | B5.0 | B5.9 | B5.7 | B6.0 |
| 5 | B3.7 | B4.9 | B6.7 | B5.1 | B3.2 | B7.2 | C1.1 | C1.5 | B4.7 | C1.3 | B5.9 | B4.4 |
| 6 | B2.5 | B4.1 | C1.8 | B4.2 | B5.4 | B7.1 | C1.2 | B9.6 | B5.1 | C1.0 | B6.2 | B7.4 |
| 7 | B4.1 | B5.7 | B8.5 | C1.1 | B4.1 | B7.5 | C1.2 | B8.7 | B2.3 | C1.6 | C1.0 | B6.0 |
| 8 | B3.1 | C1.0 | C1.2 | C1.0 | B6.6 | B7.5 | C1.6 | B7.6 | B2.9 | C1.3 | C1.0 | B7.7 |
| 9 | B2.5 | B7.9 | C1.3 | B4.7 | B6.3 | B7.1 | B9.7 | C1.0 | B3.9 | B7.7 | C3.3 | B7.9 |
| 10 | B2.2 | B5.8 | C3.6 | B5.5 | B6.8 | C1.3 | B8.2 | C1.8 | B7.4 | B7.1 | C1.7 | B8.7 |
| 11 | B2.6 | B5.1 | C1.8 | B5.0 | B7.4 | B7.3 | B8.1 | B7.6 | C1.0 | C1.0 | C5.5 | B8.2 |
| 12 | B4.3 | B7.9 | C1.6 | B5.8 | C1.7 | C1.3 | C1.6 | C1.1 | C1.2 | C1.1 | C2.4 | C1.4 |
| 13 | B6.0 | B7.8 | C1.2 | B5.5 | B9.9 | B5.3 | B8.9 | B5.6 | C2.6 | B8.8 | C3.6 | B9.7 |
| 14 | B6.0 | B7.3 | C3.6 | B6.8 | C1.0 | B8.1 | B8.7 | B5.4 | C4.1 | B9.4 | C2.9 | B9.3 |
| 15 | B6.9 | C2.1 | C2.5 | B7.2 | B9.3 | B3.7 | B7.7 | B5.3 | C1.8 | C1.0 | C2.6 | B9.0 |
| 16 | B5.7 | C1.0 | C1.9 | C1.0 | C1.0 | B4.6 | B7.2 | B4.8 | C1.3 | C1.2 | C1.7 | C1.4 |
| 17 | B5.7 | B7.3 | C1.4 | C1.5 | C1.1 | B5.9 | C1.4 | B5.1 | C2.7 | C1.1 | C2.3 | B6.7 |
| 18 | B9.5 | B6.0 | C1.7 | C1.5 | C1.0 | B8.1 | C3.4 | B4.7 | C2.0 | C1.3 | C1.5 | B5.1 |
| 19 | B8.2 | B7.9 | C1.1 | B9.4 | B8.8 | B4.2 | C6.1 | B7.2 | C2.9 | B7.4 | C2.1 | B5.5 |
| 20 | B8.0 | B8.4 | C1.0 | C1.6 | B6.5 | B9.0 | C2.9 | C1.0 | C2.2 | B6.7 | C2.6 | B5.0 |
| 21 | B5.7 | B8.0 | C2.8 | C1.1 | C1.3 | B8.0 | C1.3 | B8.7 | C1.9 | B7.9 | C2.1 | B6.8 |
| 22 | B4.0 | C1.1 | C1.2 | C1.4 | B5.8 | B8.4 | C1.8 | B8.9 | C1.6 | C1.2 | C2.3 | B5.5 |
| 23 | B3.1 | C1.1 | C1.2 | B8.2 | B4.7 | C2.6 | C1.6 | B7.4 | B9.6 | B9.9 | C1.8 | B4.5 |
| 24 | B3.0 | B7.5 | C1.1 | B8.9 | B4.1 | C2.1 | C1.7 | B7.6 | C2.4 | B8.1 | C1.5 | B4.5 |
| 25 | B2.9 | B5.9 | C1.5 | B7.0 | B4.0 | C1.1 | C1.5 | B6.2 | C1.9 | C1.2 | C1.4 | B3.8 |
| 26 | B4.4 | C1.8 | C1.1 | B8.9 | B4.0 | B8.7 | C1.4 | B5.5 | B7.9 | C1.1 | C1.5 | B4.3 |
| 27 | B2.8 | C1.1 | C1.2 | B7.4 | B3.5 | C4.9 | C1.0 | B5.1 | B6.2 | B7.9 | C1.3 | B5.8 |
| 28 | B2.8 | C1.0 | B9.9 | B7.6 | B3.2 | B8.4 | C1.1 | B5.7 | B8.7 | B7.3 | B9.2 | B8.8 |
| 29 | B3.3 | B8.4 | C5.5 | B4.6 | B4.3 | | C1.5 | B5.8 | B5.7 | B6.2 | B6.6 | B7.1 |
| 30 | B4.0 | B6.2 | B6.5 | B4.7 | B2.7 | | C1.2 | B6.0 | B8.0 | B8.0 | B5.5 | C1.7 |
| 31 | | B8.1 | | B4.4 | B3.6 | | C1.2 | | B7.3 | | B4.6 | B5.2 |

ACTIVE PROMINENCES AND FILAMENTS

AUGUST 2000

| Day | Event Type | Start (UT) | End (UT) | Lat | CMD | CMP Mo Day | Imp | Extent | Blue Shift (.1 A) | Red Shift (.1 A) | Obs Type | Sta | NOAA/USAF Reg# | Remarks |
|-----|------------|------------|----------|-----|-----|------------|-----|--------|-------------------|------------------|----------|------|----------------|---------|
| 02 | APR | 0721E | 1412D | N48 | E90 | 08 9.9 | 2 | 29 | | | P | WROC | | |
| 02 | EPL | 0831E | 1017 | N10 | E90 | 08 9.1 | 2 | 31 | | | P | WROC | | |
| 03 | APR | 0738E | 1000D | N14 | E90 | 08 10.1 | 1 | 14 | | | P | WROC | | |
| 03 | EPL | 0751 | 0905 | N18 | W90 | 07 27.6 | 3 | 54 | | | P | WROC | | |
| 03 | SPY | 0815E | 0845 | N18 | W90 | 07 27.5 | 2 | 20 | 9 | 9 | V | KHAR | | |
| 03 | APR | 0815E | 0855D | N20 | E90 | 08 10.2 | 1 | 06 | 9 | 9 | V | KHAR | | |
| 03 | ADF | 0845 | 0855 | N29 | W65 | 07 29.4 | 1 | 05 | 9 | 9 | V | KHAR | | |
| 03 | BSL | 0915E | 0935 | N23 | E90 | 08 10.2 | 1 | 02 | 9 | 9 | V | KHAR | | |
| 03 | BSL | 0951 | 1012 | N22 | E90 | 08 10.2 | 1 | 03 | 9 | 9 | V | KHAR | | |
| 04 | ADF | 0845E | 0905 | S24 | W01 | 08 4.3 | 1 | 05 | 9 | 9 | V | KHAR | | |
| 06 | ADF | 0953U | 1008 | N14 | E27 | 08 8.5 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 06 | DSD | 0953U | 1023 | N26 | E52 | 08 10.4 | 2 | 11 | 9 | | V | KHAR | | |
| 06 | DSD | 1014 | 1026 | N16 | E41 | 08 9.5 | 1 | 04 | | 9 | V | KHAR | | |
| 06 | ADF | 1048 | 1120 | N13 | E29 | 08 8.6 | 1 | 02 | 9 | 9 | V | KHAR | | |
| 09 | DSF | 0917U | 0438U | S22 | W30 | 08 7.1 | 2 | 09 | 0 | 0 | E | SVTO | | |
| 09 | DSF | 0930U | 2336U | S24 | W30 | 08 7.1 | 2 | 12 | 0 | 0 | E | LEAR | | |
| 09 | BSL | 1005 | 1015D | S10 | E90 | 08 16.2 | 1 | 02 | 9 | 9 | V | KHAR | | |
| 10 | BSL | 0737E | 0806D | N12 | E90 | 08 17.1 | 1 | 6 | | | P | WROC | | |
| 10 | DSD | 0925E | 0938 | S36 | E46 | 08 13.9 | 1 | 01 | 9 | 9 | V | KHAR | | |
| 10 | APR | 0955U | 1020 | S16 | W90 | 08 3.6 | 1 | 15 | 9 | 9 | V | KHAR | | |
| 10 | BSL | 0959 | 1012 | N16 | E90 | 08 17.2 | 2 | 12 | 9 | 9 | V | KHAR | | |
| 10 | BSL | 1045 | 1206 | N16 | E90 | 08 17.3 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 10 | BSL | 1208 | 1225D | N14 | E90 | 08 17.3 | 1 | 05 | 9 | 9 | V | KHAR | | |
| 10 | EPL | 1539E | 1622 | S15 | W90 | 08 3.8 | 1 | | 4 | 4 | E | HOLL | 9110 | |
| 11 | EPL | 0730 | 0747 | N27 | W90 | 08 4.3 | 1 | | 0 | 0 | E | LEAR | | |
| 11 | EPL | 0733E | 0743D | N30 | W90 | 08 4.2 | 1 | | 0 | 0 | E | SVTO | | |
| 11 | BSL | 1021E | 1034 | N12 | E90 | 08 18.2 | 1 | 6 | | | P | WROC | | |
| 11 | ADF | 1030 | 1110 | N13 | W35 | 08 8.8 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 12 | APR | 1015 | 1044 | S18 | W90 | 08 5.6 | 1 | 07 | 9 | 9 | V | KHAR | | |
| 12 | LPS | 1030E | 1246D | S15 | W90 | 08 5.6 | 1 | 7 | | | P | WROC | | |
| 12 | DSF | 1830U | 1152U | S31 | W33 | 08 10.2 | | 09 | 0 | 0 | E | RAMY | | |
| 13 | APR | 0858E | 1154D | N10 | W90 | 08 6.6 | 1 | 8 | | | P | WROC | | |
| 13 | APR | 1030 | 1200D | N09 | W90 | 08 6.6 | 2 | 23 | 9 | 9 | V | KHAR | | |
| 14 | DSF | 2215U | 1050U | S03 | E32 | 08 17.3 | | 08 | 0 | 0 | E | RAMY | | |
| 16 | CAP | 0806E | 1140D | S28 | W90 | 08 9.3 | 1 | 4 | | | P | WROC | | |
| 17 | APR | 0759E | 1306D | N13 | W90 | 08 10.5 | 1 | 3 | | | P | WROC | | |
| 17 | BSL | 1129E | 1140 | S12 | W90 | 08 10.7 | 1 | 6 | | | P | WROC | | |
| 18 | EPL | 0818E | 1015 | S13 | E90 | 08 25.1 | 2 | 31 | | | P | WROC | | |
| 18 | DSF | 1638U | 0455U | S39 | E06 | 08 19.2 | 2 | 07 | 0 | 0 | E | SVTO | | |
| 20 | APR | 0915E | 0935 | N06 | W90 | 08 13.6 | 1 | 03 | 7 | 9 | V | KHAR | | |
| 20 | BSL | 0918U | 1035 | S40 | W90 | 08 13.6 | 1 | 02 | 9 | 9 | V | KHAR | | |
| 20 | APR | 0958E | 1248D | S38 | W90 | 08 13.1 | 2 | 9 | | | P | WROC | | |
| 20 | DSF | 1000U | 2328U | S17 | W11 | 08 19.6 | 2 | 07 | 0 | 0 | E | LEAR | | |
| 21 | DSF | 0107U | 1404U | S30 | E28 | 08 23.2 | 3 | 14 | 0 | 0 | E | HOLL | | |
| 21 | DSF | 0209 | 0321 | S22 | W43 | 08 17.8 | 1 | 04 | 8 | 9 | E | LEAR | | |
| 21 | ASR | 0739E | 1152D | S40 | W90 | 08 14.0 | 1 | 6 | | | P | WROC | | |
| 21 | APR | 0748E | 0850 | N21 | E90 | 08 28.2 | 2 | 5 | | | P | WROC | | |
| 21 | DSF | 1138 | 1303 | S38 | E33 | 08 24.1 | 3 | 11 | 0 | 0 | E | SVTO | | |
| 22 | DSD | 0950U | 0959 | N15 | W35 | 08 19.8 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 22 | SPY | 0958U | 1042 | S15 | W60 | 08 17.9 | 2 | 30 | 9 | 9 | V | KHAR | | |
| 23 | ADF | 0920E | 1026 | N12 | W57 | 08 19.1 | 1 | 03 | 9 | 9 | V | KHAR | | |
| 23 | DSD | 0955E | 1001 | S11 | W71 | 08 18.0 | 1 | 04 | 9 | 9 | V | KHAR | | |
| 24 | DSF | 1922U | 1123U | N36 | W16 | 08 23.5 | | 14 | 0 | 0 | E | RAMY | | |

ACTIVE PROMINENCES AND FILAMENTS

43
Aug 00

AUGUST 2000

| Day | Event Type | Start (UT) | End (UT) | Lat | CMD | CMP Mo | Day | Imp | Extent | Blue Shift (.1 A) | Red Shift (.1 A) | Obs Type | Sta | NOAA/USAF Reg# | Remarks |
|-----|------------|------------|----------|-----|-----|--------|------|-----|--------|-------------------|------------------|----------|------|----------------|---------|
| 25 | DSF | 0101U | 1340U | N26 | W25 | 08 | 23.1 | 3 | 12 | 0 | 0 | E | HOLL | | |
| 25 | DSF | 0957 | 1215 | N37 | W21 | 08 | 23.7 | 3 | 11 | 9 | 9 | E | SVTO | | |
| 26 | DSF | 0102U | 1442U | S53 | W07 | 08 | 25.4 | 3 | 10 | 0 | 0 | E | HOLL | | |
| 26 | DSF | 0946 | 1306 | S53 | W03 | 08 | 26.1 | 3 | 07 | 0 | 0 | E | SVTO | | |
| 27 | DSF | 0545U | 0714U | N30 | W36 | 08 | 24.4 | 2 | 09 | 0 | 0 | E | SVTO | | |
| 27 | ASR | 0947E | 1041D | N08 | E90 | 09 | 3.1 | 2 | 11 | | | P | WROC | | |
| 28 | DSF | 1855U | 1132U | N29 | E53 | 09 | 1.9 | | 19 | 0 | 0 | E | RAMY | | |
| 29 | DSF | 1829U | 1133U | N16 | W20 | 08 | 28.2 | | 09 | 0 | 0 | E | RAMY | 9040 | |
| 30 | DSF | 0919U | 2324U | N10 | W35 | 08 | 27.7 | 2 | 09 | 0 | 0 | E | LEAR | 9140 | |
| 31 | EPL | 0612 | 0645 | S19 | E90 | 09 | 7.1 | 3 | | 9 | 9 | E | SVTO | | |

ADF = Active Dark Filament
 AFS = Arch Filament System
 APR = Active Prominence
 ASR = Active Surge Region
 BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
 CAP = CAP Prominence (Tandberg-Hanssen)
 CRN = Coronal Rain
 DSD = Dark Surge on Disk
 DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
 LPS = Loops
 MDP = Mound Prominence
 SDF/DSF = Sudden Disappearing Filament
 SPY = Spray
 SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
 The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

ABST = Abastumani
 ATHN = Athens
 BUCA = Bucharest
 CATA = Catania

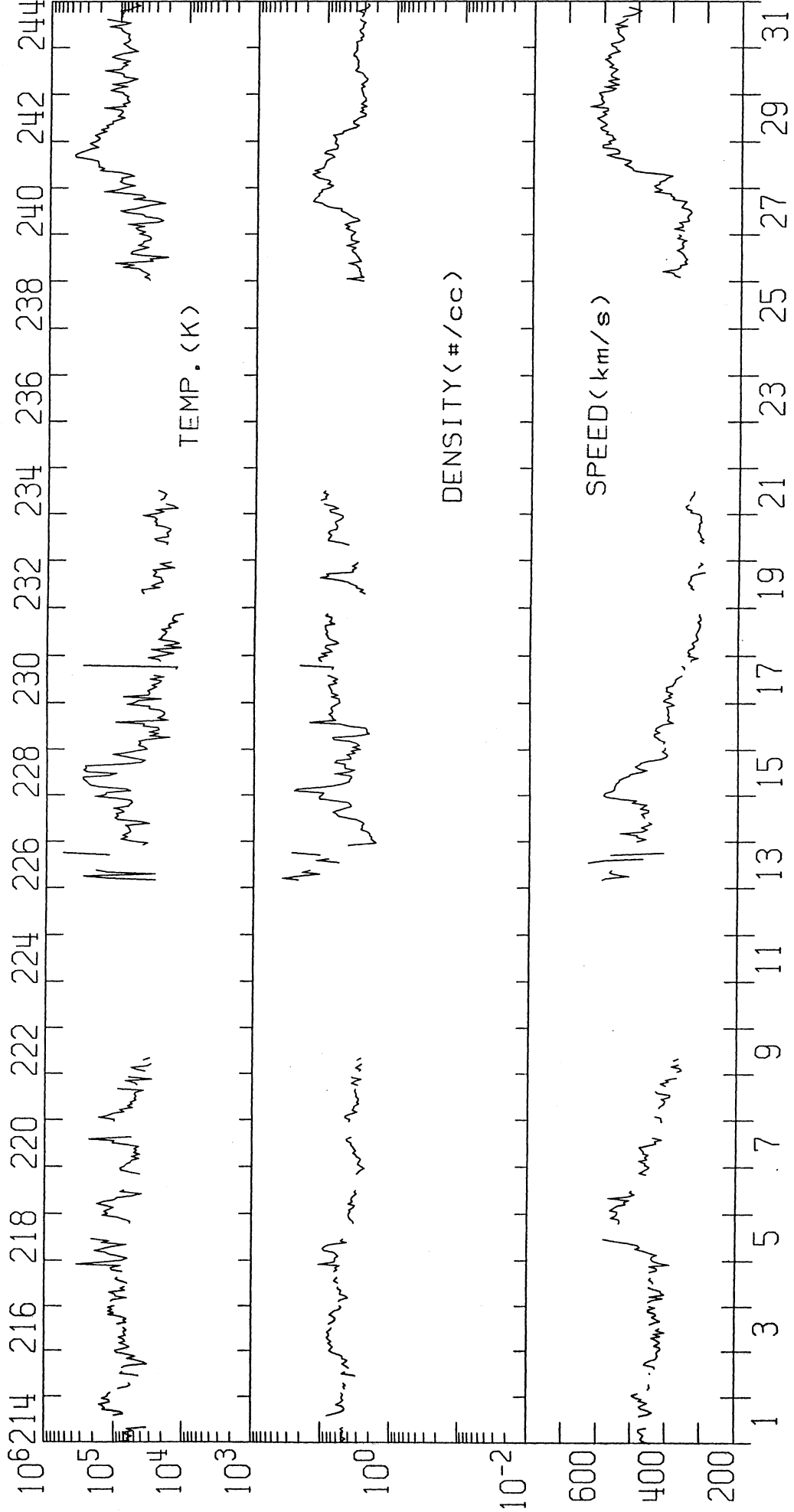
HOLL = Holloman
 KHAR = Kharkov
 LEAR = Learmonth
 PALE = Palehua

RAMY = Ramey
 SVTO = San Vito
 VORO = Voroshilov
 VALA = Valasske Mezirici
 WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

IMP 8 SOLAR WIND PLASMA
AUGUST 2000

MIT/CSR IMP 8 PLASMA PARAMETERS



AUG 2000

IMP 8 MIT ONE-HOUR AVERAGES

CONTENTS

Comprehensive Reports

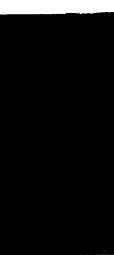
Number 678 Part II

MISCELLANEOUS DATA

Page

TOTAL SOLAR IRRADIANCE January 1996-September 2000

VIRGO (Variability of solar IRradiance and Gravity Oscillations) onboard SOHO 46-53



Total Solar Irradiance (TSI) Results from VIRGO (Variability of solar IRradiance and Gravity Oscillations) Onboard SOHO (Solar and Heliospheric Observatory)

NOTE: Version 3.50 shows also VIRGO irradiance data after the vacation of SOHO in summer 1998. These new corrected time series are internally consistent. For more information see <http://www.pmodwrc.ch>.

More detailed information about the individual measurements of the VIRGO radiometers can be found on the VIRGO homepage: <http://virgo.so.estec.esa.nl/>

Total Solar Irradiance results from VIRGO (Variability of solar IRradiance and Gravity Oscillations) onboard SOHO (SOlar and Heliospheric Observatory). The solar irradiance data and the evaluation of level 2 data are briefly described in the two papers below:

IN-FLIGHT PERFORMANCE OF THE VIRGO SOLAR IRRADIANCE INSTRUMENTS ON SOHO

(in Solar Phys. 175, pp.267-286, 1997)

Claus Fröhlich(1), Dominique A. Crommelynck(2), Christoph Wehrli(1), Martin Anklin(1), Steven Dewitte(2), Alain Fichot(2), Wolfgang Finsterle(1), Antonio Jiménez(3), André Chevalier(2), Hansjörg Roth(1)

(1) Physikalisches-Meteorologisches Observatorium Davos, World Radiation Center, CH-7260 Davos Dorf

(2) Institut Royal Météorologique de Belgique, B-1180 Bruxelles

(3) Instituto de Astrofísica de Canarias, Universidad de La Laguna, E-38071 La Laguna, Tenerife

ABSTRACT

The inflight performance of the total and spectral irradiance instruments within VIRGO (Variability of solar IRradiance and Gravity Oscillations) on the ESA/NASA Mission SOHO (SOlar and Heliospheric Observatory) is in most aspects better than expected. The behaviour during the first year of operation of the two type of radiometers and the sunphotometers together with a description of their data evaluation procedures is presented.

ASSESSMENT OF DEGRADATION OF VIRGO RADIOMETERS ONBOARD SOHO
(in Metrologia, 35, p.685-688, 1999)

M. Anklin, C. Fröhlich, W. Finsterle
Physikalisch-Meteorologisches Observatorium Davos, CH-7260 Davos Dorf

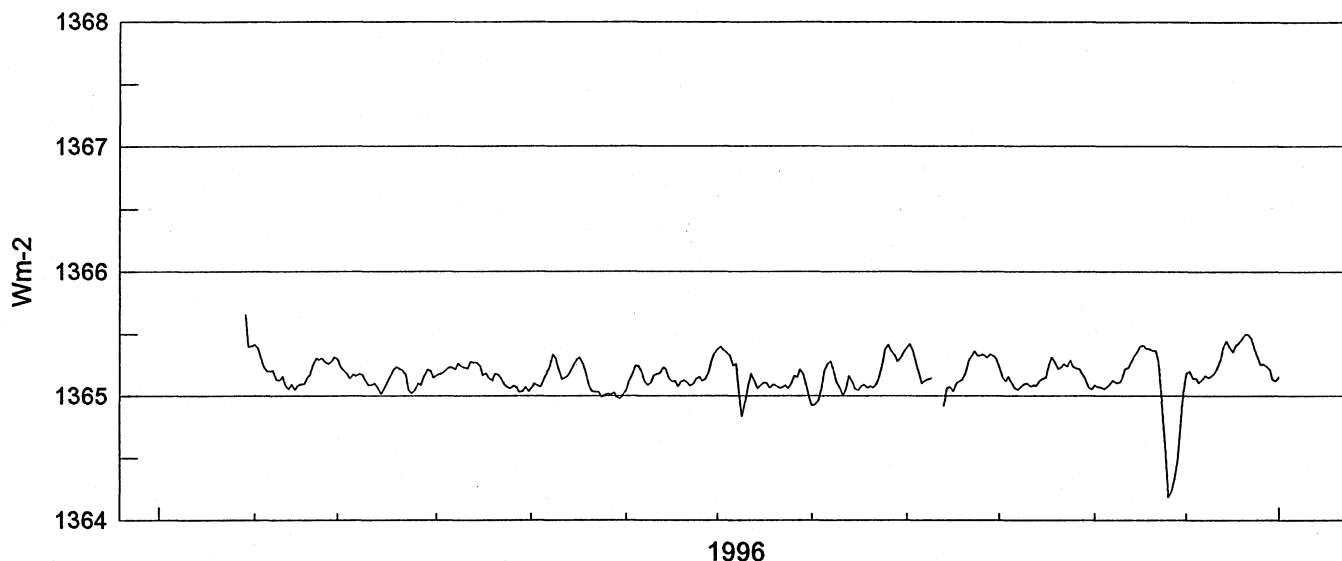
D. A. Crommelynck, S. Dewitte
Institut Royale Météorologique de Belgique, B-1180 Bruxelles

ABSTRACT

The determination of the total solar irradiance (TSI) from the SOHO/VIRGO experiment is made by first correcting the time series for all a priori known influences and, second, to correct the data for instrumental degradation, using the back-up instruments PMO6-VB and DIARAD-R. The long term behaviour of PMO6-VA shows an exponential decrease in its sensitivity with a time constant of $t=390$ days and a $1/e$ amplitude of 528 ppm, whereas DIARAD-L exhibits a general increase in its sensitivity of about 0.25 ppm/day combined with an early exponential decrease of $t=405$ days and an $1/e$ amplitude of 65 ppm. After correcting PMO6-VA and DIARAD-L for their degradation, the VIRGO TSI shows a minimum around July 1996 and has been increasing since then by about 0.4 Wm^{-2} .

Editor's Note: These data can also be accessed from the NGDC web site <http://www.ngdc.noaa.gov/stp>. Click on the Solar and Upper Atmosphere icon, then on the Get Data icon and scroll down to Solar_Irradiance. The homepage for these data is www.pmodwrc.ch. To download data, go to <ftp://ftp.pmodwrc.ch/data/irradiance/virgo/>.

SOHO/VIRGO Total Solar Irradiance 1996-Version 3.50

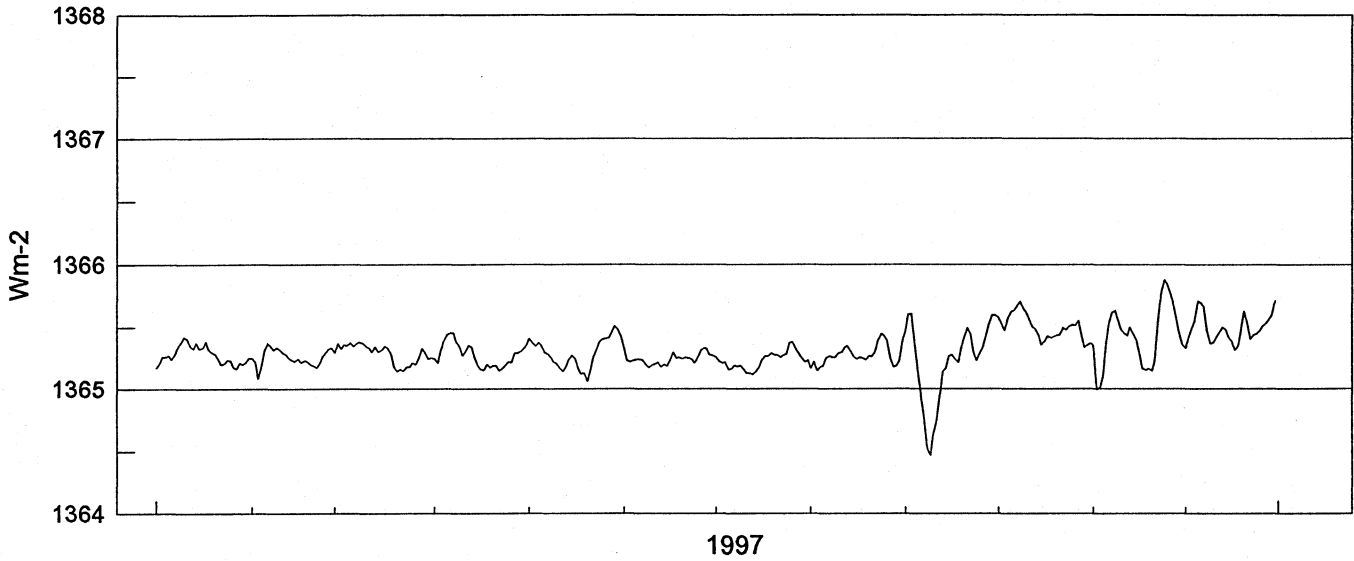


| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | -- | 1365.412 | 1365.206 | 1365.180 | 1365.065 | 1365.045 | 1365.377 | 1364.925 | 1365.393 | 1365.238 | 1365.086 | 1365.188 |
| 2 | -- | 1365.388 | 1365.188 | 1365.190 | 1365.104 | 1365.126 | 1365.400 | 1364.929 | 1365.420 | 1365.151 | 1365.073 | 1365.200 |
| 3 | -- | 1365.316 | 1365.147 | 1365.212 | 1365.083 | 1365.171 | 1365.368 | 1364.968 | 1365.375 | 1365.123 | 1365.073 | 1365.146 |
| 4 | -- | 1365.234 | 1365.174 | 1365.236 | 1365.078 | 1365.245 | 1365.355 | 1365.073 | 1365.267 | 1365.162 | 1365.057 | 1365.146 |
| 5 | -- | 1365.199 | 1365.166 | 1365.229 | 1365.128 | 1365.247 | 1365.335 | 1365.206 | 1365.175 | 1365.109 | 1365.074 | 1365.110 |
| 6 | -- | 1365.201 | 1365.182 | 1365.221 | 1365.183 | 1365.206 | 1365.250 | 1365.262 | 1365.106 | 1365.065 | 1365.095 | 1365.136 |
| 7 | -- | 1365.204 | 1365.175 | 1365.265 | 1365.242 | 1365.123 | 1365.263 | 1365.281 | 1365.128 | 1365.054 | 1365.131 | 1365.167 |
| 8 | -- | 1365.136 | 1365.127 | 1365.242 | 1365.337 | 1365.088 | 1365.026 | 1365.193 | 1365.138 | 1365.072 | 1365.108 | 1365.150 |
| 9 | -- | 1365.130 | 1365.087 | 1365.230 | 1365.314 | 1365.110 | 1364.832 | 1365.112 | 1365.142 | 1365.100 | 1365.111 | 1365.158 |
| 10 | -- | 1365.162 | 1365.088 | 1365.225 | 1365.217 | 1365.165 | 1364.956 | 1365.070 | -- | 1365.105 | 1365.134 | 1365.188 |
| 11 | -- | 1365.086 | 1365.106 | 1365.277 | 1365.138 | 1365.179 | 1365.098 | 1365.002 | -- | 1365.080 | 1365.222 | 1365.236 |
| 12 | -- | 1365.059 | 1365.066 | 1365.272 | 1365.151 | 1365.188 | 1365.180 | 1365.065 | -- | 1365.088 | 1365.229 | 1365.300 |
| 13 | -- | 1365.094 | 1365.017 | 1365.273 | 1365.165 | 1365.228 | 1365.131 | 1365.163 | 1364.921 | 1365.081 | 1365.280 | 1365.397 |
| 14 | -- | 1365.055 | 1365.056 | 1365.246 | 1365.205 | 1365.221 | 1365.065 | 1365.125 | 1365.061 | 1365.122 | 1365.323 | 1365.444 |
| 15 | -- | 1365.082 | 1365.110 | 1365.171 | 1365.261 | 1365.142 | 1365.086 | 1365.057 | 1365.074 | 1365.145 | 1365.358 | 1365.396 |
| 16 | -- | 1365.099 | 1365.166 | 1365.186 | 1365.303 | 1365.119 | 1365.111 | 1365.048 | 1365.039 | 1365.151 | 1365.403 | 1365.360 |
| 17 | -- | 1365.097 | 1365.214 | 1365.143 | 1365.315 | 1365.124 | 1365.111 | 1365.077 | 1365.102 | 1365.240 | 1365.411 | 1365.407 |
| 18 | -- | 1365.148 | 1365.238 | 1365.130 | 1365.264 | 1365.077 | 1365.070 | 1365.092 | 1365.120 | 1365.319 | 1365.382 | 1365.428 |
| 19 | -- | 1365.170 | 1365.227 | 1365.179 | 1365.175 | 1365.121 | 1365.095 | 1365.068 | 1365.134 | 1365.278 | 1365.385 | 1365.463 |
| 20 | -- | 1365.255 | 1365.207 | 1365.175 | 1365.071 | 1365.130 | 1365.088 | 1365.078 | 1365.189 | 1365.222 | 1365.370 | 1365.502 |
| 21 | -- | 1365.306 | 1365.175 | 1365.147 | 1365.036 | 1365.109 | 1365.068 | 1365.068 | 1365.291 | 1365.231 | 1365.368 | 1365.502 |
| 22 | -- | 1365.297 | 1365.048 | 1365.095 | 1365.034 | 1365.081 | 1365.070 | 1365.096 | 1365.321 | 1365.264 | 1365.271 | 1365.470 |
| 23 | -- | 1365.307 | 1365.023 | 1365.075 | 1365.031 | 1365.097 | 1365.090 | 1365.166 | 1365.364 | 1365.243 | 1364.955 | 1365.386 |
| 24 | -- | 1365.275 | 1365.046 | 1365.062 | 1364.991 | 1365.145 | 1365.061 | 1365.269 | 1365.327 | 1365.294 | 1364.605 | 1365.319 |
| 25 | -- | 1365.263 | 1365.105 | 1365.082 | 1365.006 | 1365.156 | 1365.093 | 1365.385 | 1365.333 | 1365.241 | 1364.180 | 1365.255 |
| 26 | -- | 1365.280 | 1365.091 | 1365.071 | 1365.019 | 1365.125 | 1365.165 | 1365.413 | 1365.337 | 1365.225 | 1364.216 | 1365.260 |
| 27 | -- | 1365.318 | 1365.166 | 1365.030 | 1365.012 | 1365.139 | 1365.156 | 1365.364 | 1365.313 | 1365.223 | 1364.318 | 1365.243 |
| 28 | -- | 1365.300 | 1365.217 | 1365.037 | 1365.026 | 1365.195 | 1365.214 | 1365.333 | 1365.338 | 1365.177 | 1364.464 | 1365.215 |
| 29 | -- | 1365.236 | 1365.206 | 1365.072 | 1364.994 | 1365.297 | 1365.179 | 1365.280 | 1365.326 | 1365.147 | 1364.747 | 1365.135 |
| 30 | 1365.397 | | 1365.150 | 1365.040 | 1364.981 | 1365.350 | 1365.091 | 1365.311 | 1365.306 | 1365.073 | 1365.018 | 1365.126 |
| 31 | 1365.404 | | 1365.169 | | 1365.011 | | 1364.975 | 1365.361 | | 1365.052 | | 1365.159 |

NOTE: '--' indicates data not available.

SOHO/VIRGO Total Solar Irradiance 1997-Version 3.50

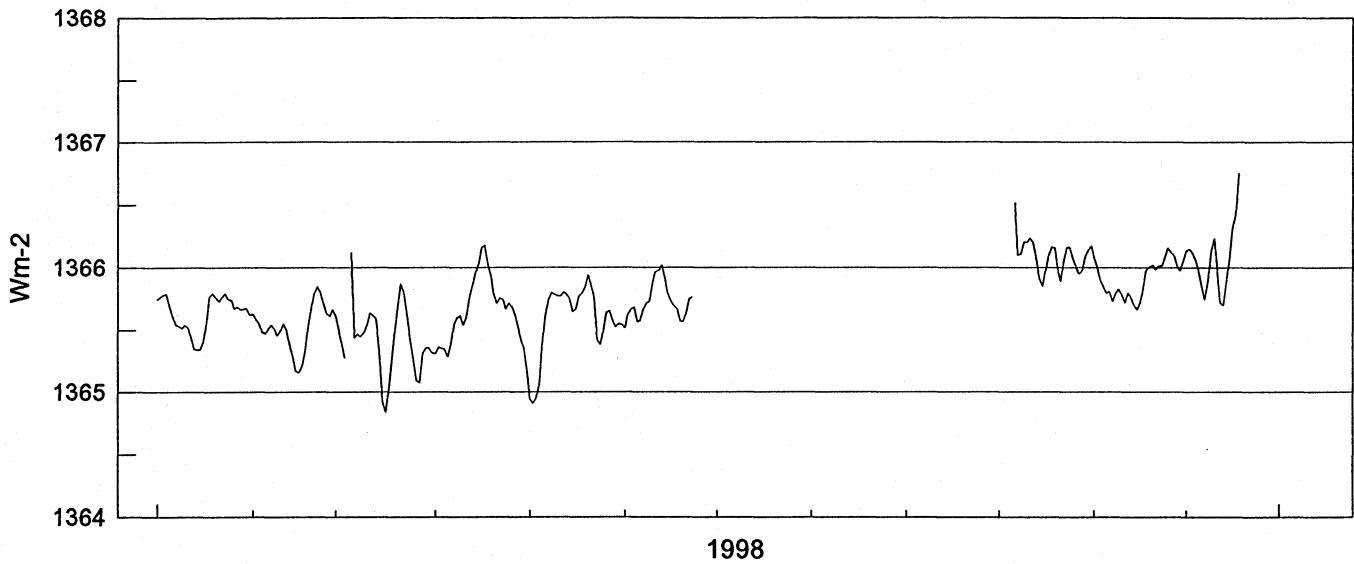
49
Misc



| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 1365.177 | 1365.249 | 1365.367 | 1365.248 | 1365.358 | 1365.422 | 1365.269 | 1365.228 | 1365.388 | 1365.600 | 1365.366 | 1365.361 |
| 2 | 1365.198 | 1365.223 | 1365.329 | 1365.212 | 1365.411 | 1365.328 | 1365.256 | 1365.170 | 1365.476 | 1365.579 | 1365.353 | 1365.334 |
| 3 | 1365.263 | 1365.088 | 1365.360 | 1365.307 | 1365.371 | 1365.229 | 1365.220 | 1365.220 | 1365.603 | 1365.538 | 1364.995 | 1365.422 |
| 4 | 1365.260 | 1365.178 | 1365.352 | 1365.389 | 1365.348 | 1365.220 | 1365.209 | 1365.152 | 1365.608 | 1365.476 | 1365.007 | 1365.484 |
| 5 | 1365.272 | 1365.314 | 1365.375 | 1365.438 | 1365.374 | 1365.233 | 1365.216 | 1365.182 | 1365.369 | 1365.566 | 1365.103 | 1365.551 |
| 6 | 1365.243 | 1365.366 | 1365.347 | 1365.454 | 1365.352 | 1365.243 | 1365.159 | 1365.185 | 1365.131 | 1365.623 | 1365.332 | 1365.707 |
| 7 | 1365.277 | 1365.353 | 1365.368 | 1365.455 | 1365.296 | 1365.243 | 1365.166 | 1365.252 | 1364.969 | 1365.637 | 1365.525 | 1365.692 |
| 8 | 1365.344 | 1365.319 | 1365.378 | 1365.385 | 1365.287 | 1365.238 | 1365.192 | 1365.268 | 1364.785 | 1365.671 | 1365.616 | 1365.667 |
| 9 | 1365.379 | 1365.337 | 1365.376 | 1365.349 | 1365.256 | 1365.200 | 1365.187 | 1365.255 | 1364.523 | 1365.708 | 1365.633 | 1365.467 |
| 10 | 1365.420 | 1365.317 | 1365.348 | 1365.273 | 1365.220 | 1365.177 | 1365.190 | 1365.257 | 1364.467 | 1365.652 | 1365.566 | 1365.369 |
| 11 | 1365.408 | 1365.298 | 1365.332 | 1365.309 | 1365.205 | 1365.195 | 1365.160 | 1365.290 | 1364.629 | 1365.616 | 1365.485 | 1365.375 |
| 12 | 1365.349 | 1365.280 | 1365.300 | 1365.351 | 1365.170 | 1365.198 | 1365.128 | 1365.298 | 1364.729 | 1365.565 | 1365.450 | 1365.419 |
| 13 | 1365.330 | 1365.249 | 1365.343 | 1365.340 | 1365.146 | 1365.214 | 1365.129 | 1365.337 | 1364.925 | 1365.508 | 1365.436 | 1365.461 |
| 14 | 1365.376 | 1365.228 | 1365.301 | 1365.251 | 1365.177 | 1365.178 | 1365.119 | 1365.350 | 1365.142 | 1365.487 | 1365.499 | 1365.500 |
| 15 | 1365.327 | 1365.227 | 1365.318 | 1365.188 | 1365.240 | 1365.200 | 1365.142 | 1365.307 | 1365.170 | 1365.435 | 1365.451 | 1365.479 |
| 16 | 1365.332 | 1365.246 | 1365.350 | 1365.158 | 1365.273 | 1365.187 | 1365.179 | 1365.262 | 1365.266 | 1365.356 | 1365.401 | 1365.418 |
| 17 | 1365.383 | 1365.218 | 1365.332 | 1365.153 | 1365.247 | 1365.233 | 1365.236 | 1365.239 | 1365.276 | 1365.383 | 1365.277 | 1365.390 |
| 18 | 1365.322 | 1365.232 | 1365.290 | 1365.203 | 1365.176 | 1365.297 | 1365.266 | 1365.256 | 1365.239 | 1365.429 | 1365.171 | 1365.317 |
| 19 | 1365.298 | 1365.227 | 1365.172 | 1365.175 | 1365.123 | 1365.249 | 1365.268 | 1365.250 | 1365.218 | 1365.415 | 1365.153 | 1365.348 |
| 20 | 1365.286 | 1365.201 | 1365.142 | 1365.189 | 1365.130 | 1365.254 | 1365.294 | 1365.235 | 1365.330 | 1365.425 | 1365.166 | 1365.499 |
| 21 | 1365.246 | 1365.191 | 1365.159 | 1365.190 | 1365.062 | 1365.245 | 1365.276 | 1365.265 | 1365.420 | 1365.435 | 1365.151 | 1365.628 |
| 22 | 1365.200 | 1365.175 | 1365.152 | 1365.152 | 1365.140 | 1365.257 | 1365.278 | 1365.262 | 1365.494 | 1365.438 | 1365.221 | 1365.535 |
| 23 | 1365.204 | 1365.198 | 1365.178 | 1365.169 | 1365.257 | 1365.249 | 1365.254 | 1365.295 | 1365.444 | 1365.497 | 1365.530 | 1365.405 |
| 24 | 1365.237 | 1365.260 | 1365.182 | 1365.192 | 1365.318 | 1365.241 | 1365.275 | 1365.390 | 1365.300 | 1365.482 | 1365.780 | 1365.438 |
| 25 | 1365.230 | 1365.298 | 1365.210 | 1365.223 | 1365.381 | 1365.209 | 1365.281 | 1365.446 | 1365.230 | 1365.508 | 1365.875 | 1365.443 |
| 26 | 1365.181 | 1365.326 | 1365.199 | 1365.217 | 1365.406 | 1365.251 | 1365.374 | 1365.433 | 1365.291 | 1365.520 | 1365.848 | 1365.468 |
| 27 | 1365.165 | 1365.331 | 1365.253 | 1365.294 | 1365.407 | 1365.310 | 1365.379 | 1365.394 | 1365.343 | 1365.516 | 1365.772 | 1365.510 |
| 28 | 1365.212 | 1365.295 | 1365.329 | 1365.292 | 1365.414 | 1365.332 | 1365.323 | 1365.253 | 1365.443 | 1365.550 | 1365.686 | 1365.531 |
| 29 | 1365.201 | | 1365.293 | 1365.302 | 1365.466 | 1365.329 | 1365.292 | 1365.181 | 1365.522 | 1365.449 | 1365.559 | 1365.556 |
| 30 | 1365.216 | | 1365.246 | 1365.327 | 1365.513 | 1365.276 | 1365.249 | 1365.186 | 1365.599 | 1365.336 | 1365.449 | 1365.600 |
| 31 | 1365.253 | | 1365.251 | | 1365.485 | | 1365.221 | 1365.226 | | 1365.360 | | 1365.716 |

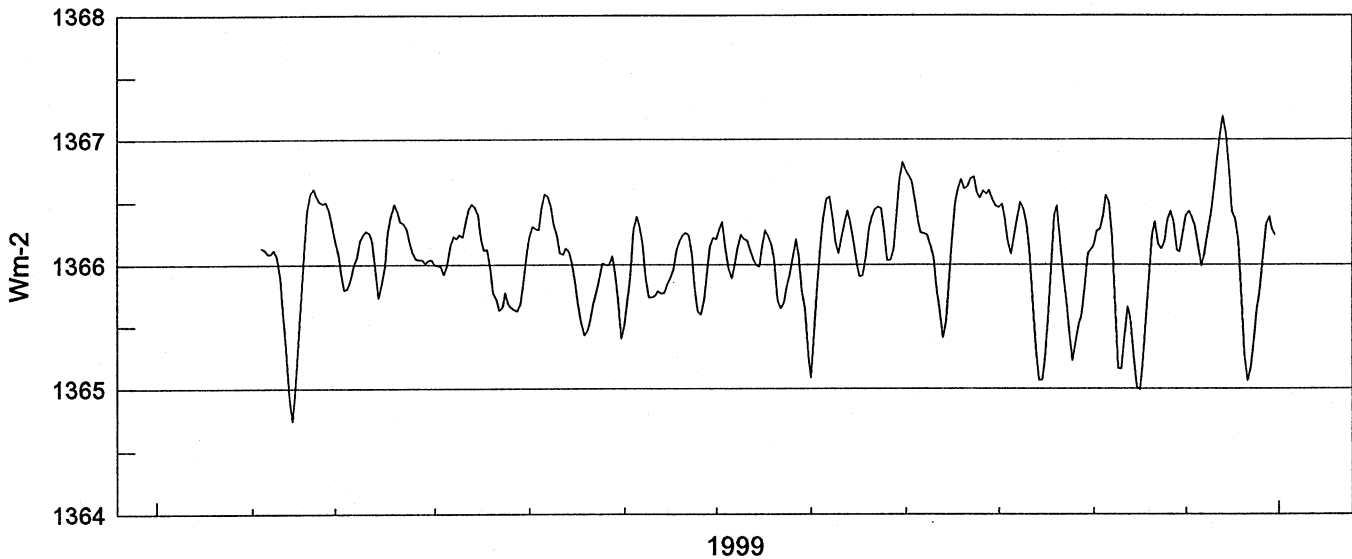
NOTE: '-' indicates data not available.

SOHO/VIRGO Total Solar Irradiance 1998 - Version 3.50



| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|----------|----------|----------|----------|----------|----------|-----|-----|-----|----------|----------|----------|
| 1 | 1365.743 | 1365.628 | 1365.496 | 1365.312 | 1365.151 | 1365.545 | -- | -- | -- | -- | 1366.173 | 1366.054 |
| 2 | 1365.762 | 1365.585 | 1365.385 | 1365.362 | 1364.945 | 1365.514 | -- | -- | -- | -- | 1366.077 | 1366.136 |
| 3 | 1365.782 | 1365.559 | 1365.278 | 1365.352 | 1364.909 | 1365.622 | -- | -- | -- | -- | 1365.998 | 1366.148 |
| 4 | 1365.786 | 1365.483 | -- | 1365.349 | 1364.951 | 1365.661 | -- | -- | -- | -- | 1365.900 | 1366.124 |
| 5 | 1365.683 | 1365.476 | -- | 1365.286 | 1365.074 | 1365.684 | -- | -- | -- | -- | 1365.840 | 1366.060 |
| 6 | 1365.616 | 1365.514 | 1365.439 | 1365.391 | 1365.364 | 1365.567 | -- | -- | -- | -- | 1365.797 | 1365.969 |
| 7 | 1365.547 | 1365.539 | 1365.470 | 1365.554 | 1365.613 | 1365.573 | -- | -- | -- | -- | 1365.809 | 1365.844 |
| 8 | 1365.532 | 1365.513 | 1365.450 | 1365.595 | 1365.739 | 1365.665 | -- | -- | -- | 1366.100 | 1365.730 | 1365.743 |
| 9 | 1365.514 | 1365.461 | 1365.474 | 1365.614 | 1365.793 | 1365.717 | -- | -- | -- | 1366.108 | 1365.794 | 1365.877 |
| 10 | 1365.541 | 1365.502 | 1365.540 | 1365.541 | 1365.785 | 1365.732 | -- | -- | -- | 1366.205 | 1365.829 | 1366.132 |
| 11 | 1365.523 | 1365.553 | 1365.637 | 1365.615 | 1365.771 | 1365.878 | -- | -- | -- | 1366.203 | 1365.785 | 1366.234 |
| 12 | 1365.451 | 1365.496 | 1365.617 | 1365.748 | 1365.769 | 1365.961 | -- | -- | -- | 1366.234 | 1365.721 | 1366.016 |
| 13 | 1365.350 | 1365.383 | 1365.591 | 1365.845 | 1365.799 | 1365.975 | -- | -- | -- | 1366.202 | 1365.793 | 1365.720 |
| 14 | 1365.340 | 1365.281 | 1365.341 | 1365.957 | 1365.786 | 1366.019 | -- | -- | -- | 1366.066 | 1365.763 | 1365.698 |
| 15 | 1365.342 | 1365.169 | 1364.927 | 1366.036 | 1365.748 | 1365.914 | -- | -- | -- | 1365.912 | 1365.701 | 1365.893 |
| 16 | 1365.408 | 1365.158 | 1364.837 | 1366.155 | 1365.650 | 1365.798 | -- | -- | -- | 1365.854 | 1365.662 | 1366.101 |
| 17 | 1365.575 | 1365.207 | 1364.990 | 1366.178 | 1365.667 | 1365.734 | -- | -- | -- | 1365.961 | 1365.722 | 1366.318 |
| 18 | 1365.764 | 1365.334 | 1365.241 | 1366.019 | 1365.763 | 1365.697 | -- | -- | -- | 1366.091 | 1365.819 | 1366.423 |
| 19 | 1365.792 | 1365.516 | 1365.501 | 1365.941 | 1365.791 | 1365.666 | -- | -- | -- | 1366.163 | 1365.982 | -- |
| 20 | 1365.758 | 1365.675 | 1365.718 | 1365.792 | 1365.836 | 1365.573 | -- | -- | -- | 1366.157 | 1366.005 | -- |
| 21 | 1365.730 | 1365.796 | 1365.865 | 1365.715 | 1365.940 | 1365.566 | -- | -- | -- | 1365.999 | 1366.017 | -- |
| 22 | 1365.762 | 1365.848 | 1365.798 | 1365.757 | 1365.873 | 1365.635 | -- | -- | -- | 1365.886 | 1365.985 | -- |
| 23 | 1365.790 | 1365.804 | 1365.609 | 1365.742 | 1365.764 | 1365.748 | -- | -- | -- | 1366.066 | 1366.016 | -- |
| 24 | 1365.743 | 1365.714 | 1365.416 | 1365.667 | 1365.424 | 1365.760 | -- | -- | -- | 1366.160 | 1366.016 | -- |
| 25 | 1365.737 | 1365.635 | 1365.280 | 1365.714 | 1365.386 | -- | -- | -- | -- | 1366.160 | 1366.092 | -- |
| 26 | 1365.673 | 1365.615 | 1365.094 | 1365.681 | 1365.481 | -- | -- | -- | -- | 1366.070 | 1366.158 | -- |
| 27 | 1365.683 | 1365.664 | 1365.078 | 1365.618 | 1365.645 | -- | -- | -- | -- | 1366.000 | 1366.122 | -- |
| 28 | 1365.665 | 1365.620 | 1365.318 | 1365.533 | 1365.653 | -- | -- | -- | -- | 1365.947 | 1366.098 | -- |
| 29 | 1365.671 | -- | 1365.359 | 1365.426 | 1365.574 | -- | -- | -- | -- | 1365.970 | 1366.003 | -- |
| 30 | 1365.672 | -- | 1365.359 | 1365.354 | 1365.525 | -- | -- | -- | -- | 1366.086 | 1365.974 | -- |
| 31 | 1365.625 | -- | 1365.316 | -- | 1365.553 | -- | -- | -- | -- | 1366.143 | -- | -- |

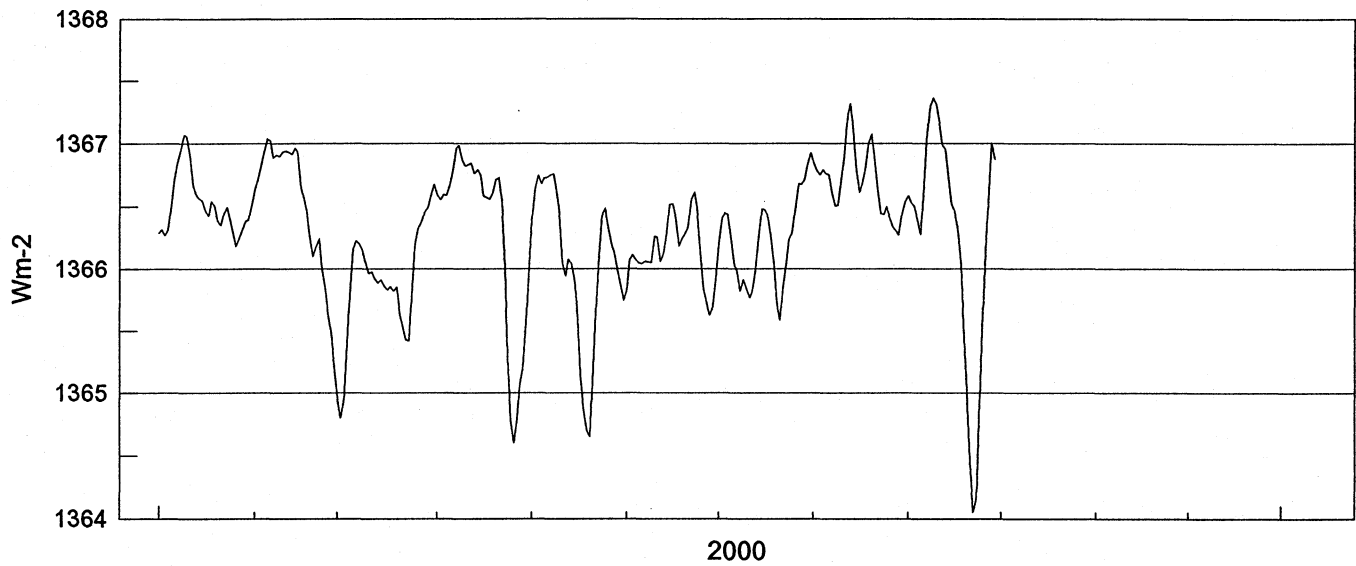
SOHO/VIRGO Total Solar Irradiance 1999 - Version 3.50



| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | -- | -- | 1366.095 | 1366.000 | 1366.091 | 1365.402 | 1366.211 | 1365.272 | 1366.820 | 1366.469 | 1366.121 | 1366.251 |
| 2 | -- | -- | 1365.916 | 1365.996 | 1366.224 | 1365.515 | 1366.206 | 1365.088 | 1366.754 | 1366.460 | 1366.152 | 1366.398 |
| 3 | -- | -- | 1365.802 | 1365.990 | 1366.307 | 1365.687 | 1366.291 | 1365.448 | 1366.718 | 1366.484 | 1366.268 | 1366.426 |
| 4 | -- | 1366.132 | 1365.812 | 1365.921 | 1366.283 | 1365.902 | 1366.339 | 1365.839 | 1366.673 | 1366.383 | 1366.283 | 1366.380 |
| 5 | -- | 1366.122 | 1365.885 | 1365.992 | 1366.280 | 1366.274 | 1366.131 | 1366.151 | 1366.524 | 1366.182 | 1366.396 | 1366.311 |
| 6 | -- | 1366.084 | 1365.994 | 1366.154 | 1366.453 | 1366.382 | 1365.967 | 1366.362 | 1366.350 | 1366.084 | 1366.554 | 1366.147 |
| 7 | -- | 1366.088 | 1366.060 | 1366.225 | 1366.564 | 1366.314 | 1365.890 | 1366.522 | 1366.255 | 1366.243 | 1366.503 | 1365.991 |
| 8 | -- | 1366.119 | 1366.185 | 1366.207 | 1366.543 | 1366.173 | 1365.984 | 1366.546 | 1366.248 | 1366.360 | 1366.207 | 1366.077 |
| 9 | -- | 1366.062 | 1366.239 | 1366.240 | 1366.463 | 1365.894 | 1366.131 | 1366.377 | 1366.232 | 1366.499 | 1365.641 | 1366.243 |
| 10 | -- | 1365.908 | 1366.267 | 1366.217 | 1366.324 | 1365.741 | 1366.238 | 1366.195 | 1366.153 | 1366.447 | 1365.165 | 1366.393 |
| 11 | -- | 1365.641 | 1366.247 | 1366.348 | 1366.240 | 1365.742 | 1366.202 | 1366.094 | 1366.056 | 1366.321 | 1365.157 | 1366.597 |
| 12 | -- | 1365.318 | 1366.191 | 1366.440 | 1366.090 | 1365.749 | 1366.194 | 1366.223 | 1365.827 | 1366.128 | 1365.422 | 1366.797 |
| 13 | -- | 1364.937 | 1365.969 | 1366.483 | 1366.083 | 1365.792 | 1366.128 | 1366.348 | 1365.637 | 1365.746 | 1365.659 | 1367.023 |
| 14 | -- | 1364.743 | 1365.736 | 1366.457 | 1366.131 | 1365.769 | 1366.049 | 1366.432 | 1365.407 | 1365.333 | 1365.574 | 1367.188 |
| 15 | -- | 1364.977 | 1365.851 | 1366.396 | 1366.105 | 1365.777 | 1365.992 | 1366.327 | 1365.544 | 1365.068 | 1365.276 | 1367.044 |
| 16 | -- | 1365.365 | 1365.997 | 1366.217 | 1366.004 | 1365.834 | 1365.982 | 1366.172 | 1365.830 | 1365.070 | 1365.013 | 1366.738 |
| 17 | -- | 1365.755 | 1366.259 | 1366.116 | 1365.844 | 1365.890 | 1366.137 | 1366.004 | 1366.200 | 1365.226 | 1364.992 | 1366.430 |
| 18 | -- | 1366.156 | 1366.393 | 1366.124 | 1365.686 | 1365.958 | 1366.272 | 1365.907 | 1366.502 | 1365.558 | 1365.195 | 1366.365 |
| 19 | -- | 1366.438 | 1366.482 | 1365.968 | 1365.528 | 1366.118 | 1366.224 | 1365.915 | 1366.622 | 1365.965 | 1365.544 | 1366.190 |
| 20 | -- | 1366.572 | 1366.421 | 1365.780 | 1365.428 | 1366.195 | 1366.153 | 1366.058 | 1366.683 | 1366.404 | 1365.892 | 1365.715 |
| 21 | -- | 1366.605 | 1366.346 | 1365.728 | 1365.469 | 1366.234 | 1366.038 | 1366.287 | 1366.606 | 1366.467 | 1366.244 | 1365.275 |
| 22 | -- | 1366.541 | 1366.333 | 1365.632 | 1365.553 | 1366.253 | 1365.719 | 1366.375 | 1366.623 | 1366.196 | 1366.343 | 1365.063 |
| 23 | -- | 1366.503 | 1366.292 | 1365.657 | 1365.693 | 1366.236 | 1365.648 | 1366.445 | 1366.691 | 1365.929 | 1366.169 | 1365.172 |
| 24 | -- | 1366.488 | 1366.172 | 1365.776 | 1365.790 | 1366.086 | 1365.695 | 1366.461 | 1366.700 | 1365.705 | 1366.127 | 1365.410 |
| 25 | -- | 1366.496 | 1366.100 | 1365.681 | 1365.914 | 1365.833 | 1365.816 | 1366.446 | 1366.587 | 1365.473 | 1366.190 | 1365.621 |
| 26 | -- | 1366.430 | 1366.044 | 1365.656 | 1366.009 | 1365.621 | 1365.920 | 1366.283 | 1366.535 | 1365.226 | 1366.351 | 1365.797 |
| 27 | -- | 1366.331 | 1366.042 | 1365.631 | 1366.001 | 1365.599 | 1366.061 | 1366.033 | 1366.589 | 1365.379 | 1366.426 | 1366.072 |
| 28 | -- | 1366.198 | 1366.039 | 1365.626 | 1365.993 | 1365.716 | 1366.201 | 1366.037 | 1366.566 | 1365.523 | 1366.338 | 1366.325 |
| 29 | -- | | 1366.010 | 1365.688 | 1366.064 | 1365.952 | 1366.082 | 1366.116 | 1366.596 | 1365.583 | 1366.116 | 1366.381 |
| 30 | -- | | 1366.036 | 1365.877 | 1365.956 | 1366.149 | 1365.789 | 1366.356 | 1366.523 | 1365.813 | 1366.102 | 1366.281 |
| 31 | -- | | 1366.039 | | 1365.724 | | 1365.648 | 1366.682 | | 1366.084 | | 1366.232 |

NOTE: '--' indicates data not available.

SOHO/VIRGO Total Solar Irradiance 2000 - Version 3.50



| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|-----|
| 1 | 1366.291 | 1366.639 | 1364.931 | 1366.552 | 1366.392 | 1365.832 | 1366.198 | 1366.862 | 1366.582 | -- | -- | -- |
| 2 | 1366.317 | 1366.727 | 1365.308 | 1366.594 | 1366.652 | 1366.069 | 1366.400 | 1366.789 | 1366.527 | -- | -- | -- |
| 3 | 1366.267 | 1366.819 | 1365.780 | 1366.588 | 1366.750 | 1366.110 | 1366.448 | 1366.755 | 1366.506 | -- | -- | -- |
| 4 | 1366.322 | 1366.938 | 1366.159 | 1366.674 | 1366.683 | 1366.070 | 1366.432 | 1366.794 | 1366.401 | -- | -- | -- |
| 5 | 1366.530 | 1367.035 | 1366.225 | 1366.794 | 1366.728 | 1366.043 | 1366.243 | 1366.763 | 1366.273 | -- | -- | -- |
| 6 | 1366.712 | 1367.020 | 1366.200 | 1366.966 | 1366.734 | 1366.041 | 1366.031 | 1366.755 | 1366.579 | -- | -- | -- |
| 7 | 1366.854 | 1366.889 | 1366.159 | 1366.987 | 1366.751 | 1366.062 | 1365.986 | 1366.605 | 1367.036 | -- | -- | -- |
| 8 | 1366.952 | 1366.909 | 1366.056 | 1366.876 | 1366.759 | 1366.054 | 1365.823 | 1366.506 | 1367.292 | -- | -- | -- |
| 9 | 1367.068 | 1366.899 | 1365.962 | 1366.824 | 1366.638 | 1366.051 | 1365.913 | 1366.507 | 1367.363 | -- | -- | -- |
| 10 | 1367.058 | 1366.939 | 1365.975 | 1366.836 | 1366.454 | 1366.257 | 1365.839 | 1366.711 | 1367.308 | -- | -- | -- |
| 11 | 1366.911 | 1366.940 | 1365.924 | 1366.844 | 1366.042 | 1366.252 | 1365.767 | 1366.900 | 1367.180 | -- | -- | -- |
| 12 | 1366.666 | 1366.936 | 1365.886 | 1366.764 | 1365.945 | 1366.063 | 1365.822 | 1367.219 | 1366.990 | -- | -- | -- |
| 13 | 1366.592 | 1366.915 | 1365.911 | 1366.791 | 1366.078 | 1366.123 | 1365.997 | 1367.315 | 1366.955 | -- | -- | -- |
| 14 | 1366.565 | 1366.964 | 1365.859 | 1366.746 | 1366.044 | 1366.297 | 1366.256 | 1367.109 | 1366.710 | -- | -- | -- |
| 15 | 1366.542 | 1366.934 | 1365.833 | 1366.582 | 1365.906 | 1366.515 | 1366.479 | 1366.782 | 1366.524 | -- | -- | -- |
| 16 | 1366.462 | 1366.657 | 1365.859 | 1366.571 | 1365.605 | 1366.520 | 1366.474 | 1366.618 | 1366.463 | -- | -- | -- |
| 17 | 1366.427 | 1366.563 | 1365.822 | 1366.558 | 1365.143 | 1366.409 | 1366.430 | 1366.684 | 1366.331 | -- | -- | -- |
| 18 | 1366.538 | 1366.443 | 1365.853 | 1366.618 | 1364.875 | 1366.181 | 1366.260 | 1366.806 | 1366.043 | -- | -- | -- |
| 19 | 1366.504 | 1366.265 | 1365.634 | 1366.710 | 1364.700 | 1366.246 | 1366.026 | 1367.003 | 1365.554 | -- | -- | -- |
| 20 | 1366.383 | 1366.102 | 1365.547 | 1366.728 | 1364.653 | 1366.276 | 1365.723 | 1367.072 | 1365.015 | -- | -- | -- |
| 21 | 1366.351 | 1366.179 | 1365.432 | 1366.543 | 1365.094 | 1366.333 | 1365.588 | 1366.906 | 1364.455 | -- | -- | -- |
| 22 | 1366.439 | 1366.238 | 1365.419 | 1366.011 | 1365.651 | 1366.562 | 1365.866 | 1366.652 | 1364.050 | -- | -- | -- |
| 23 | 1366.492 | 1366.006 | 1365.849 | 1365.293 | 1366.100 | 1366.609 | 1366.050 | 1366.445 | 1364.157 | -- | -- | -- |
| 24 | 1366.400 | 1365.846 | 1366.195 | 1364.782 | 1366.443 | 1366.483 | 1366.235 | 1366.435 | 1364.795 | -- | -- | -- |
| 25 | 1366.279 | 1365.621 | 1366.325 | 1364.599 | 1366.483 | 1366.149 | 1366.287 | 1366.496 | 1365.521 | -- | -- | -- |
| 26 | 1366.181 | 1365.479 | 1366.372 | 1364.786 | 1366.339 | 1365.843 | 1366.486 | 1366.411 | 1366.141 | -- | -- | -- |
| 27 | 1366.246 | 1365.211 | 1366.455 | 1365.064 | 1366.205 | 1365.719 | 1366.680 | 1366.334 | 1366.625 | -- | -- | -- |
| 28 | 1366.313 | 1364.959 | 1366.494 | 1365.206 | 1366.116 | 1365.629 | 1366.678 | 1366.302 | 1367.010 | -- | -- | -- |
| 29 | 1366.380 | 1364.799 | 1366.583 | 1365.566 | 1365.999 | 1365.677 | 1366.715 | 1366.270 | 1366.873 | -- | -- | -- |
| 30 | 1366.390 | | 1366.677 | 1366.029 | 1365.870 | 1365.905 | 1366.840 | 1366.440 | -- | -- | -- | -- |
| 31 | 1366.507 | | 1366.588 | | 1365.743 | | 1366.925 | 1366.541 | -- | -- | -- | -- |

NOTE: '--' indicates data not available.

SOHO/VIRGO Total Solar Irradiance

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